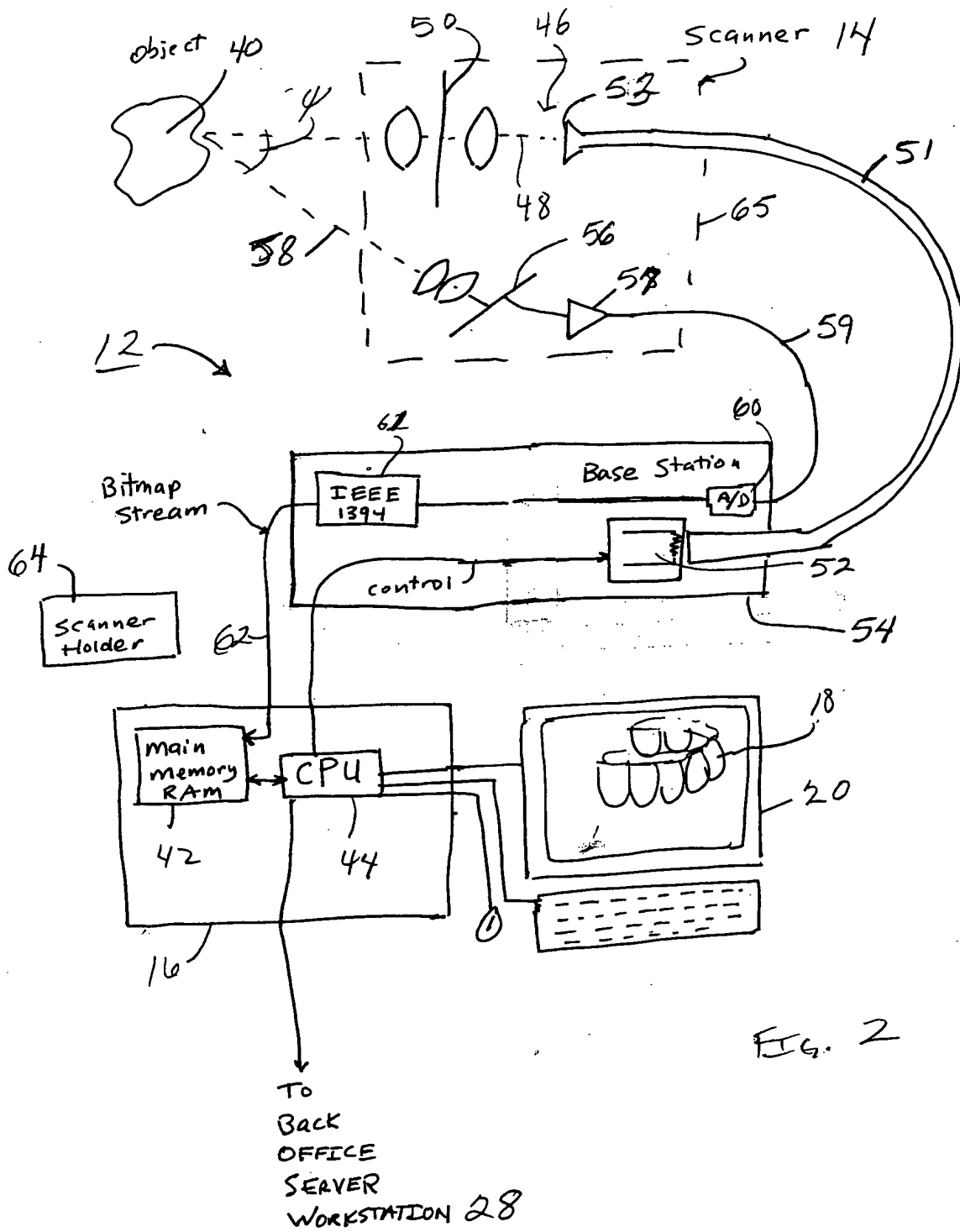
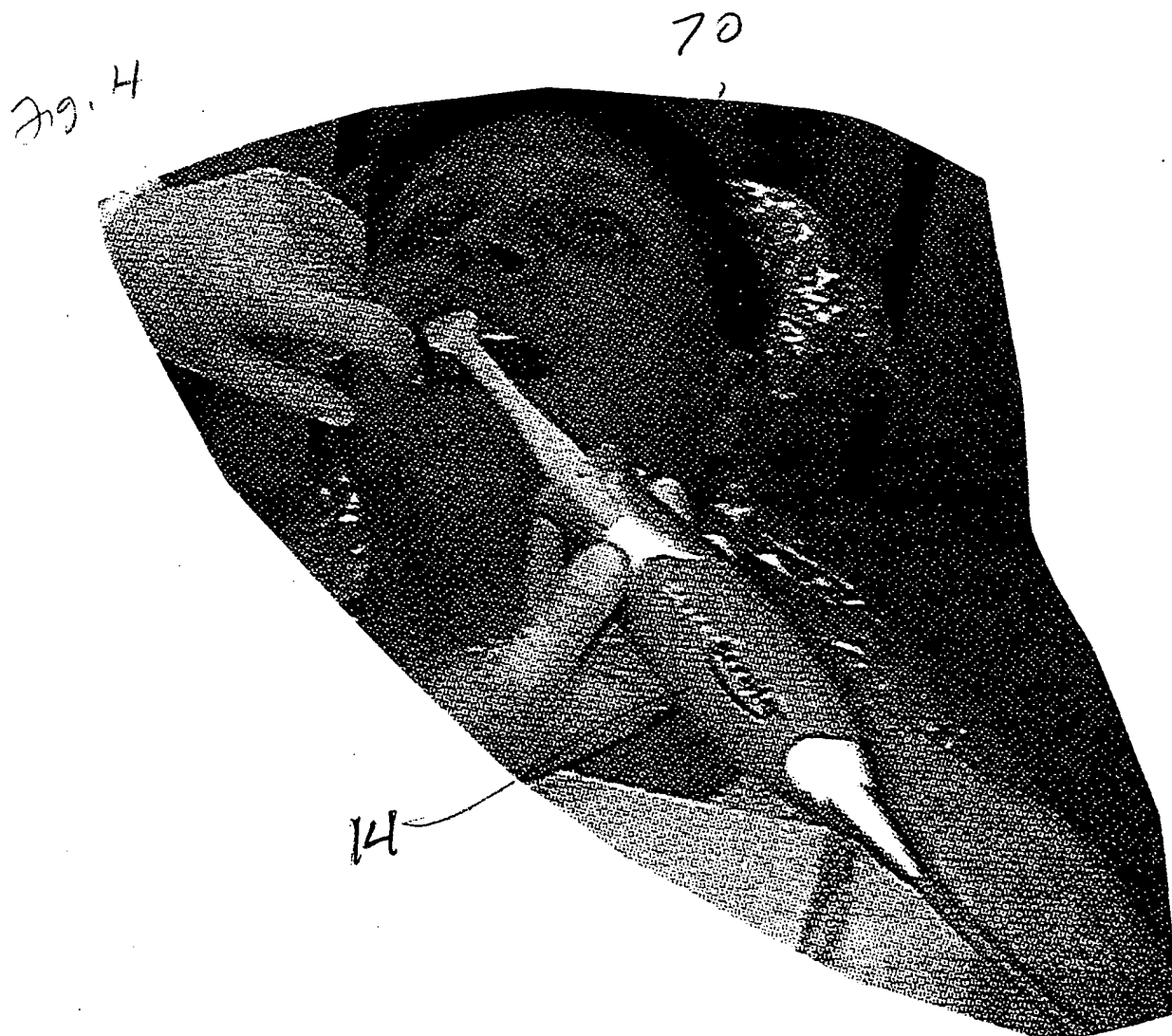
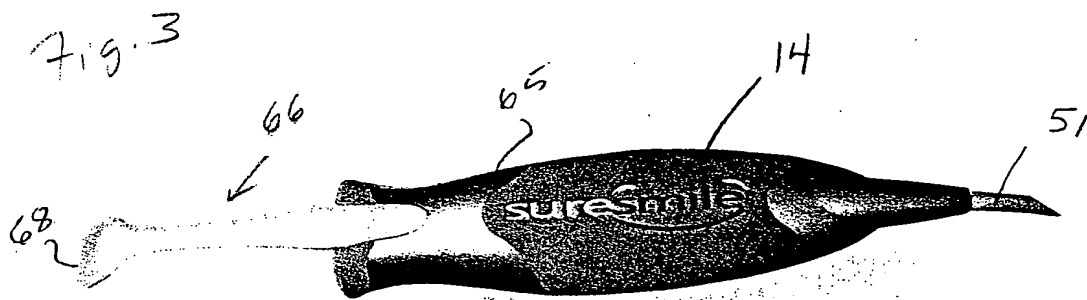


Fig. 1





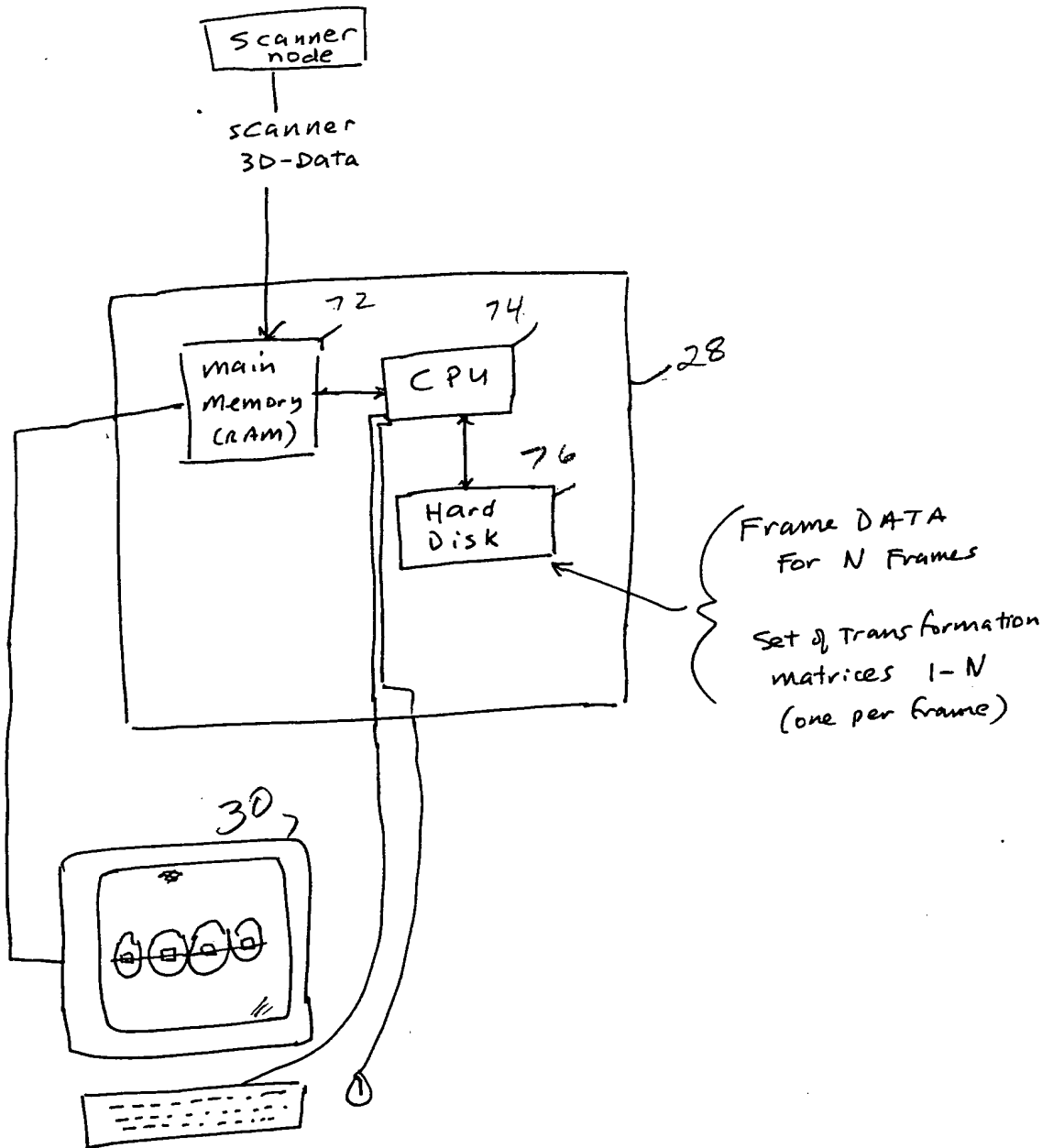


Fig. 5

3-Dimensional IMAGE capture (per frame)

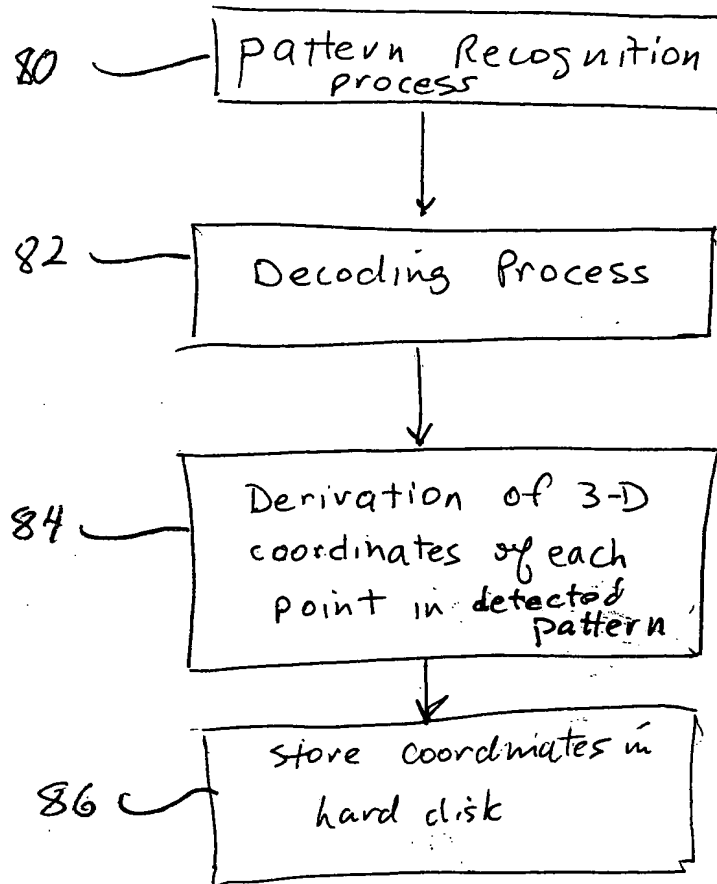
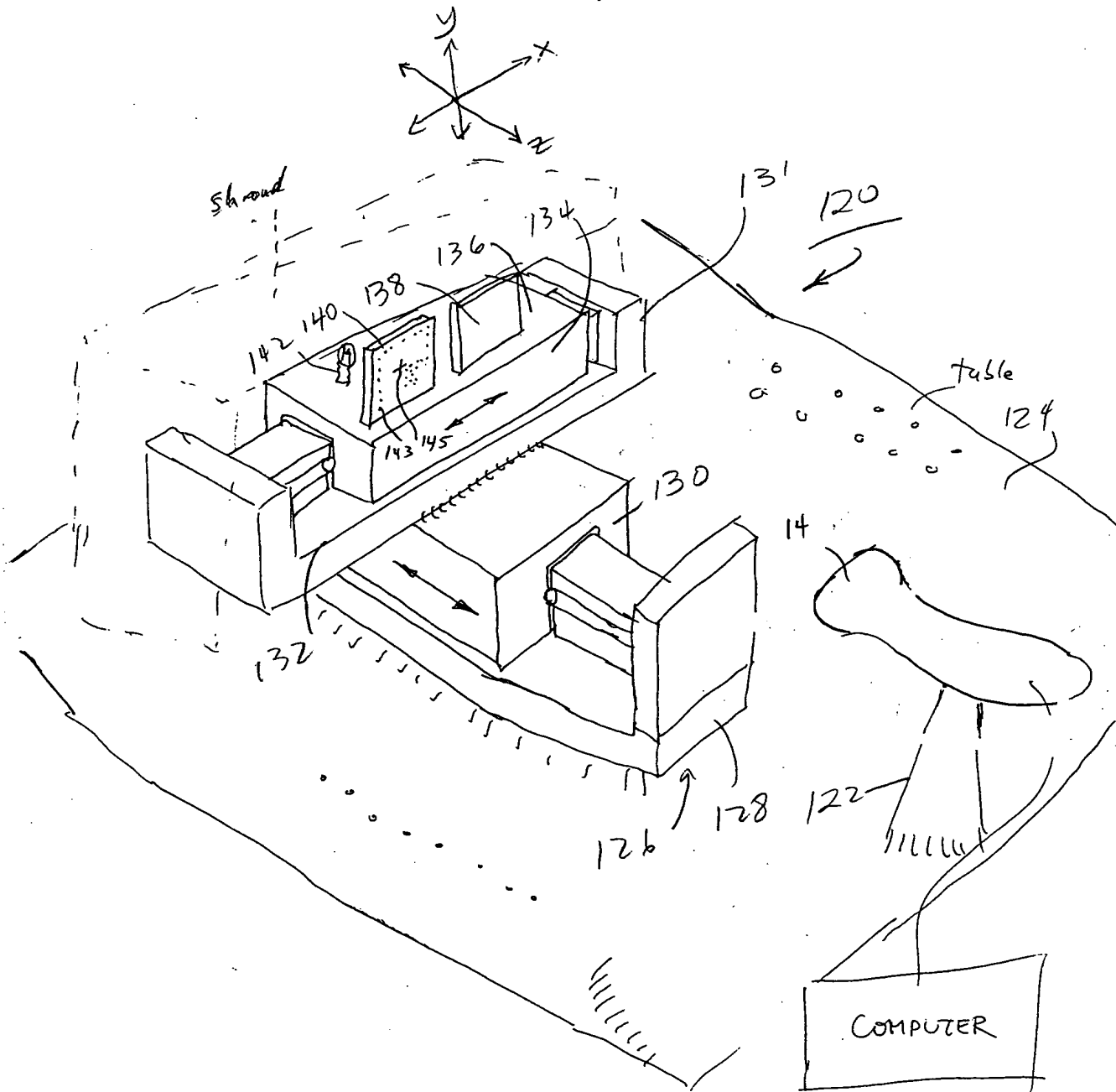


Fig. 6

p. 11

Fig. 8



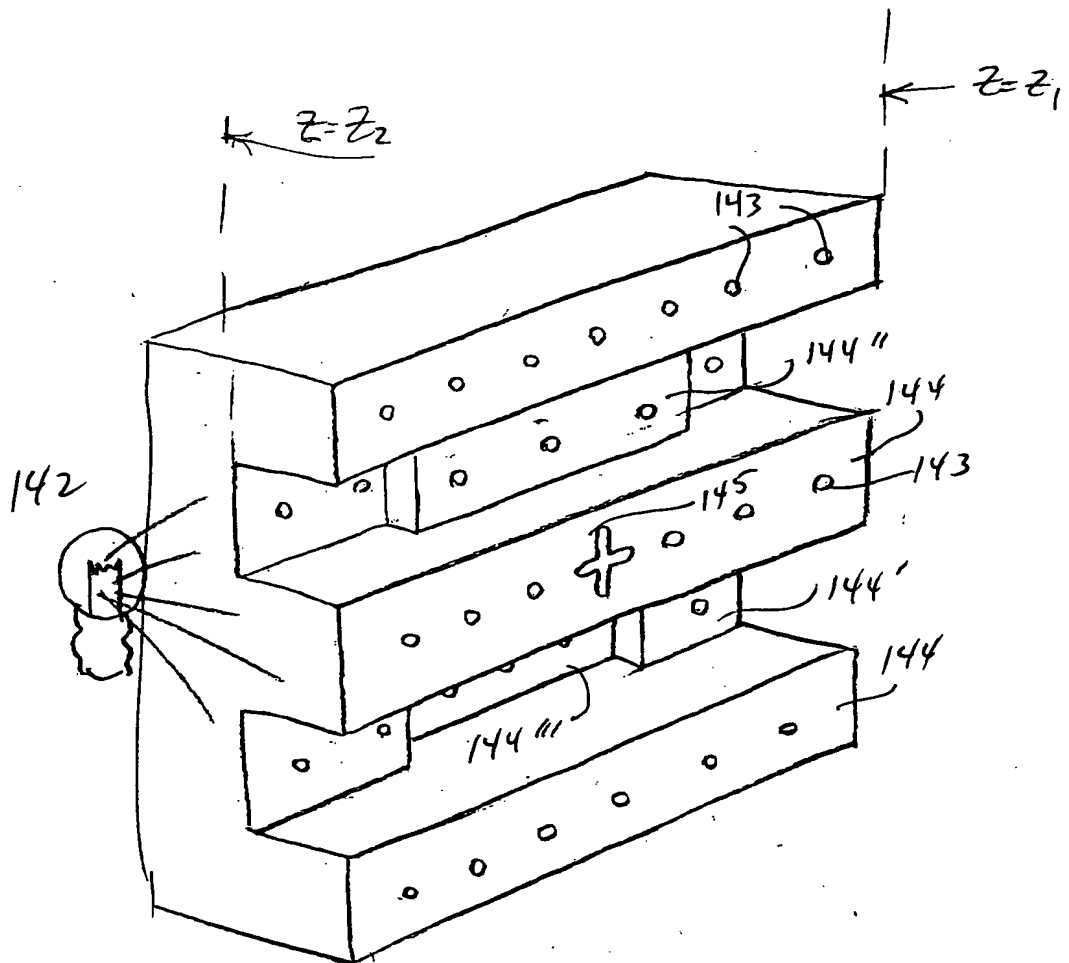


Fig. 8A

Fig. 9

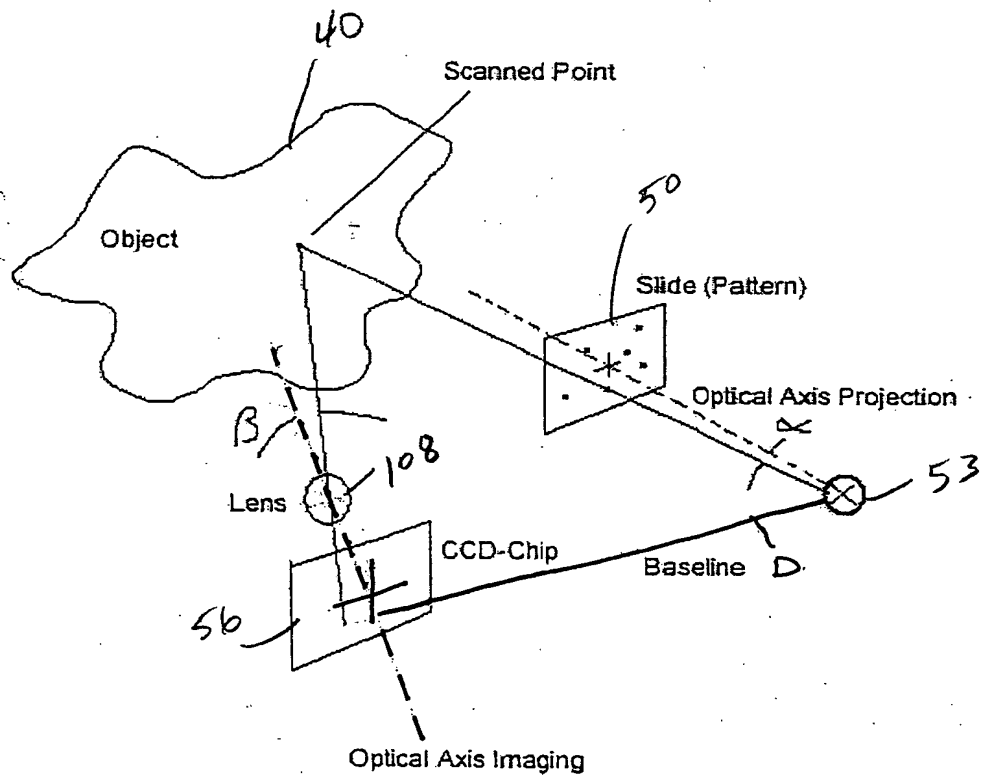


Fig. 9B

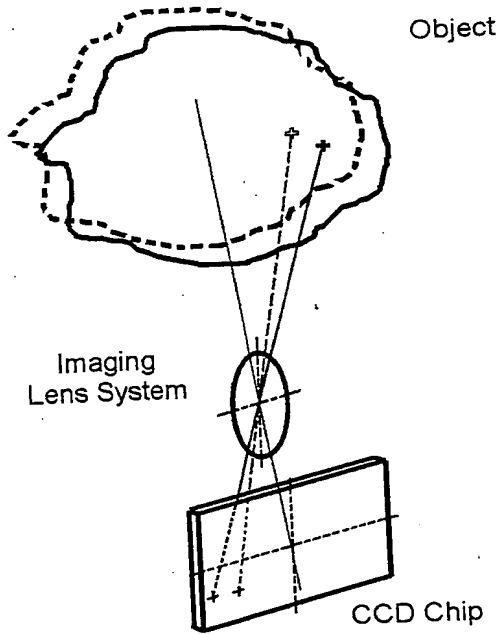
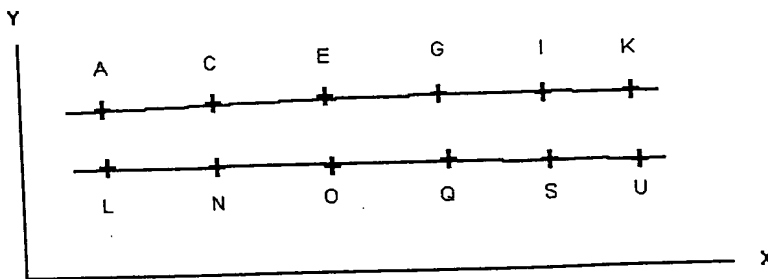
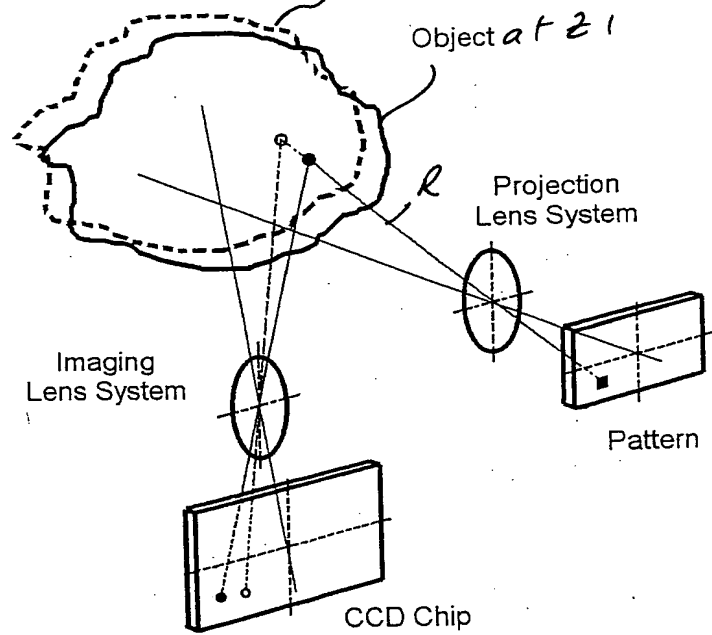


Fig. 9A
Object at z_2



Pixel coordinates for portions of the pattern assigned to a certain Z-level

Fig. 9C

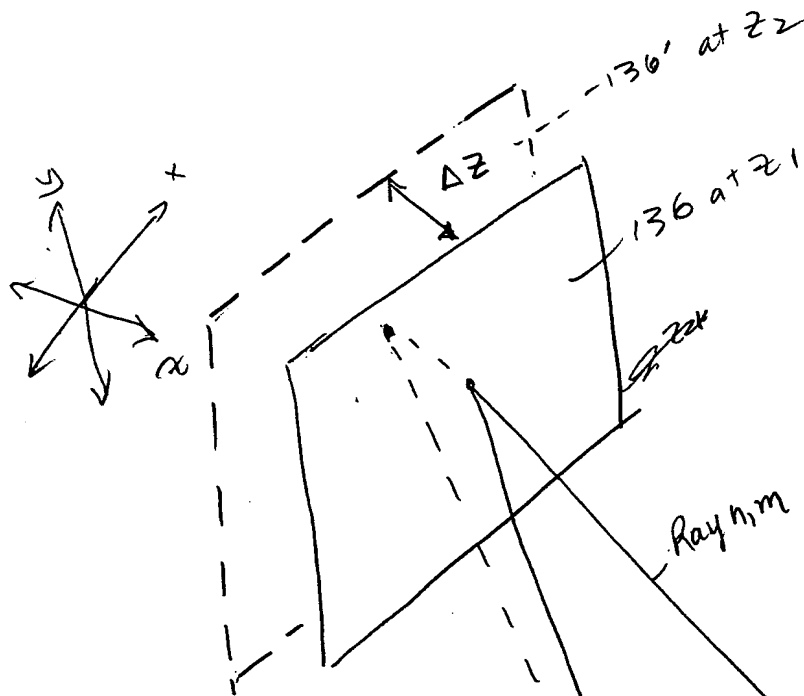
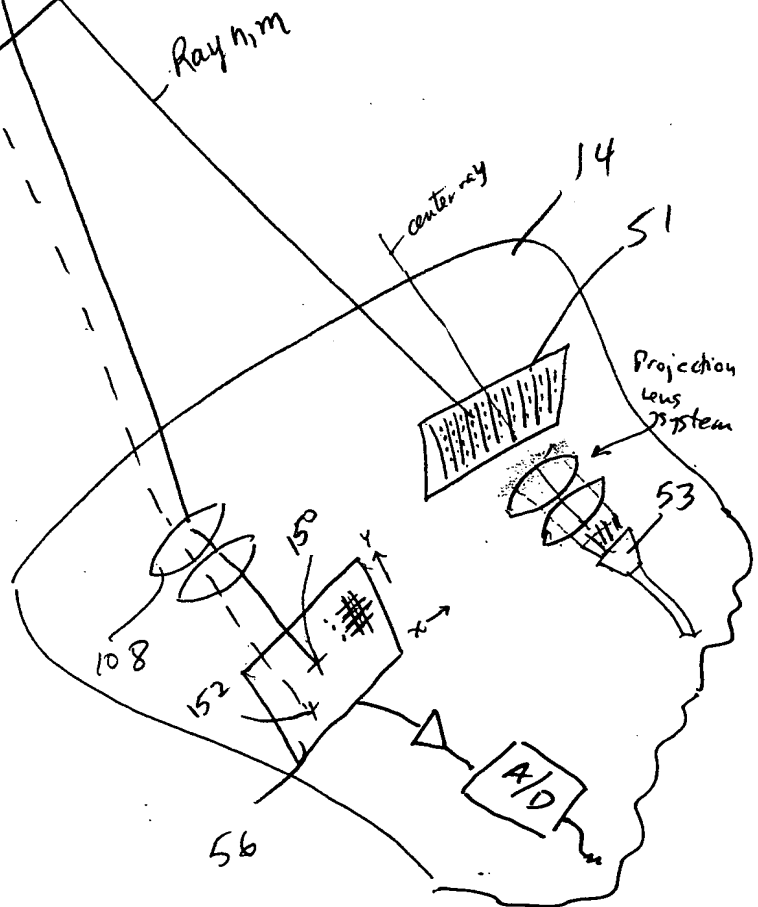
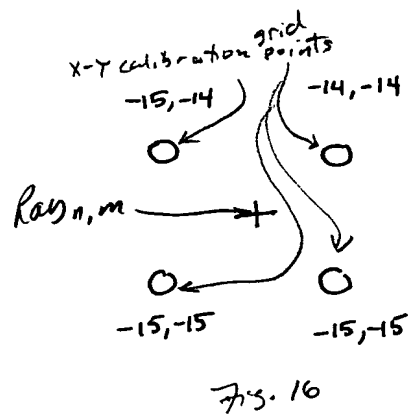
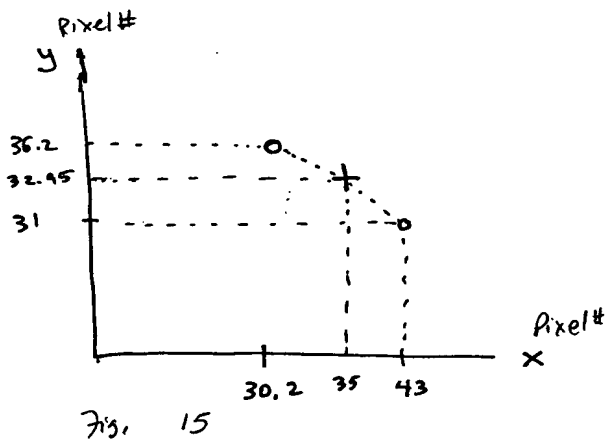
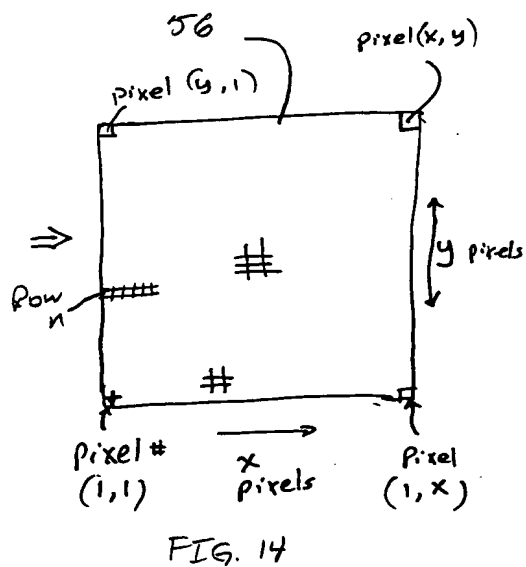
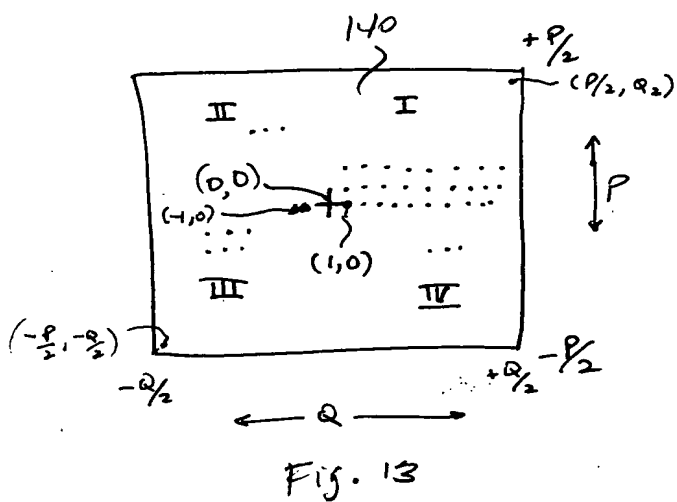
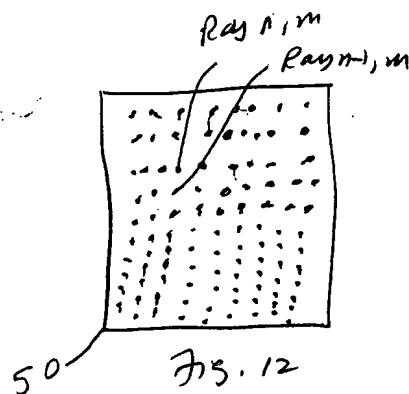
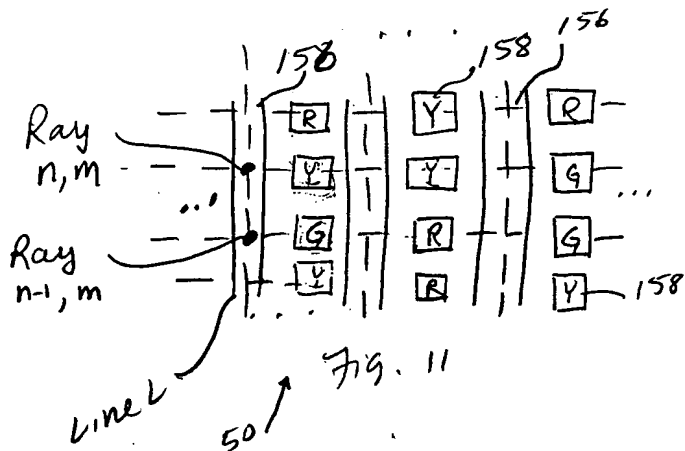


Fig. 110





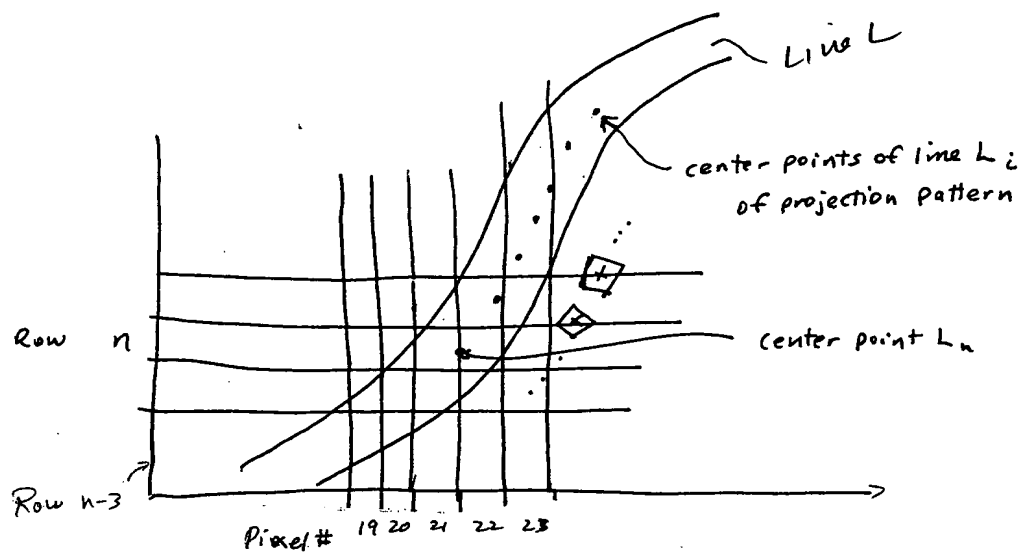
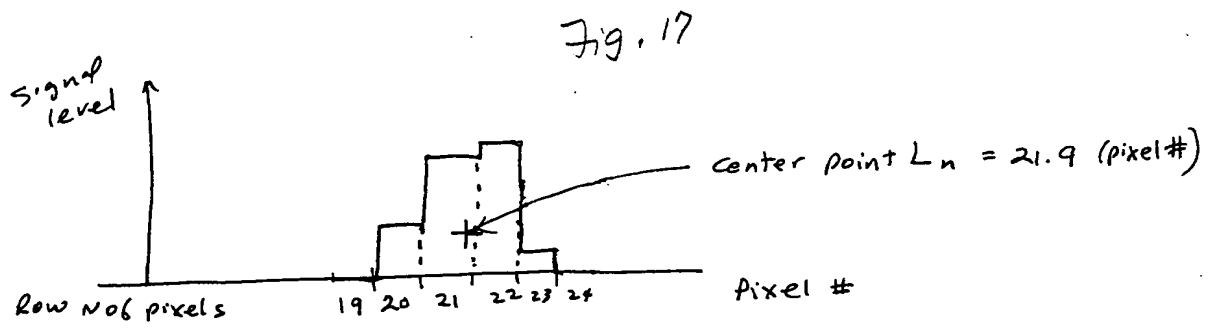


Fig. 18

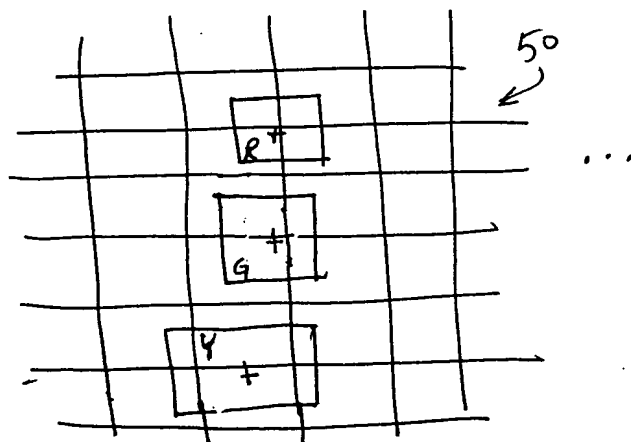
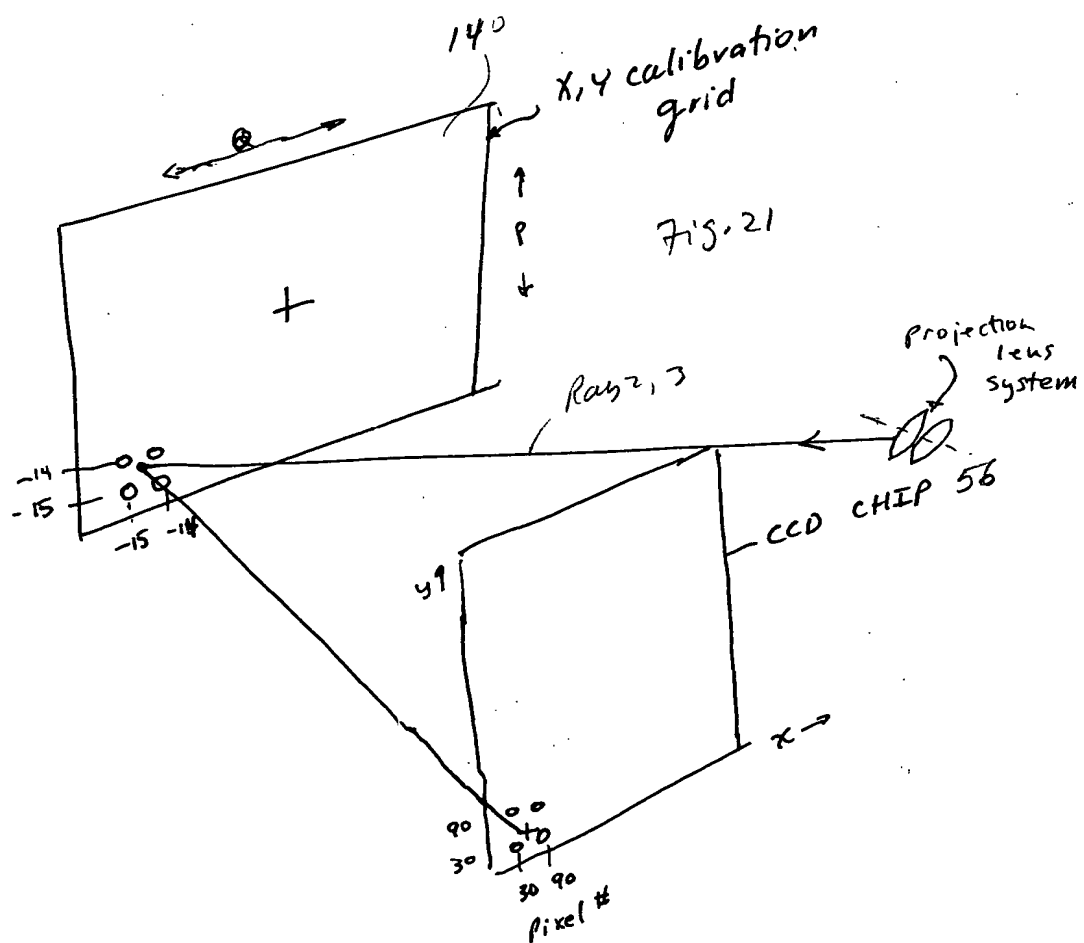
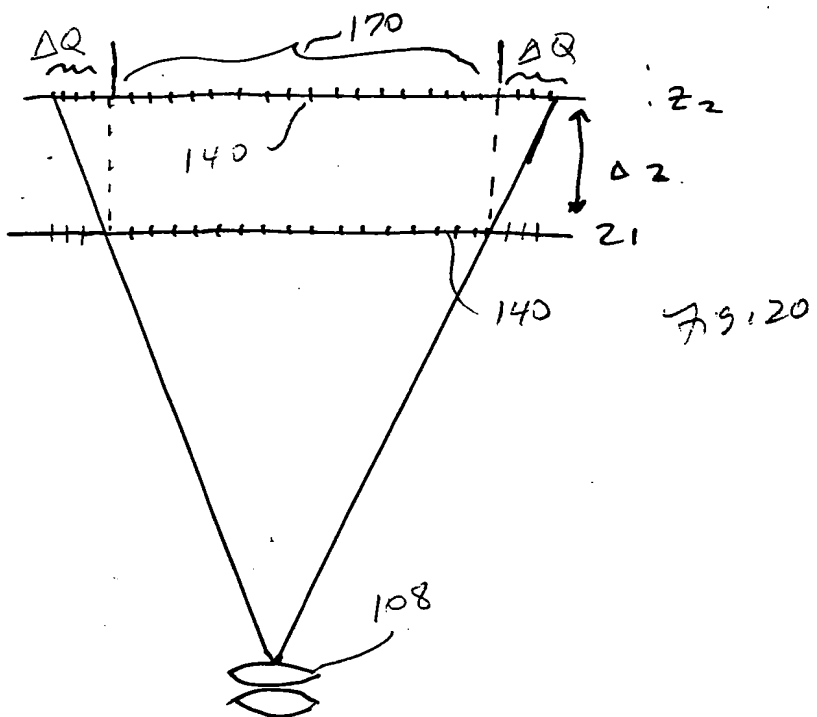


Fig. 19



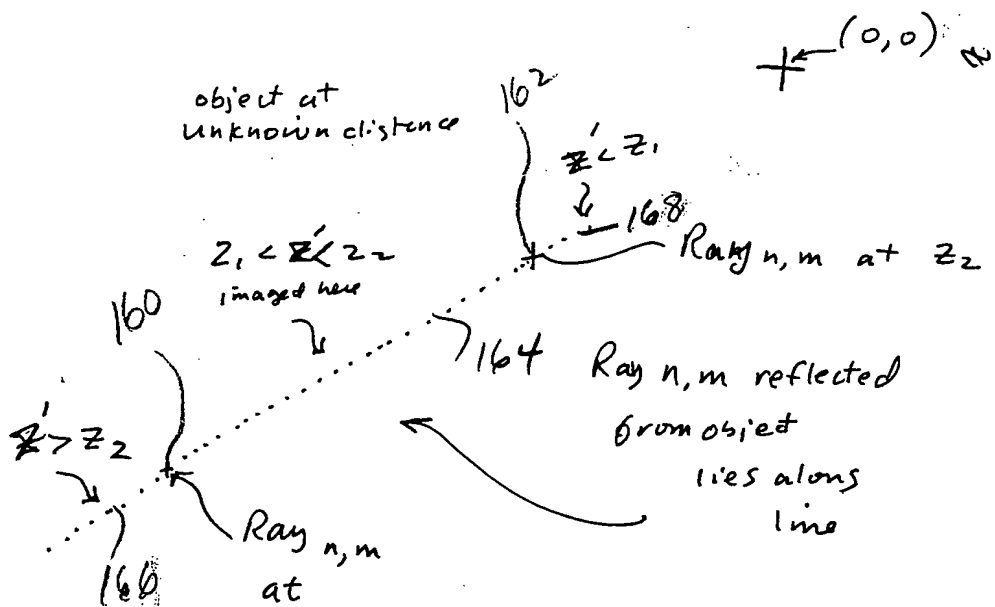


Fig. 22

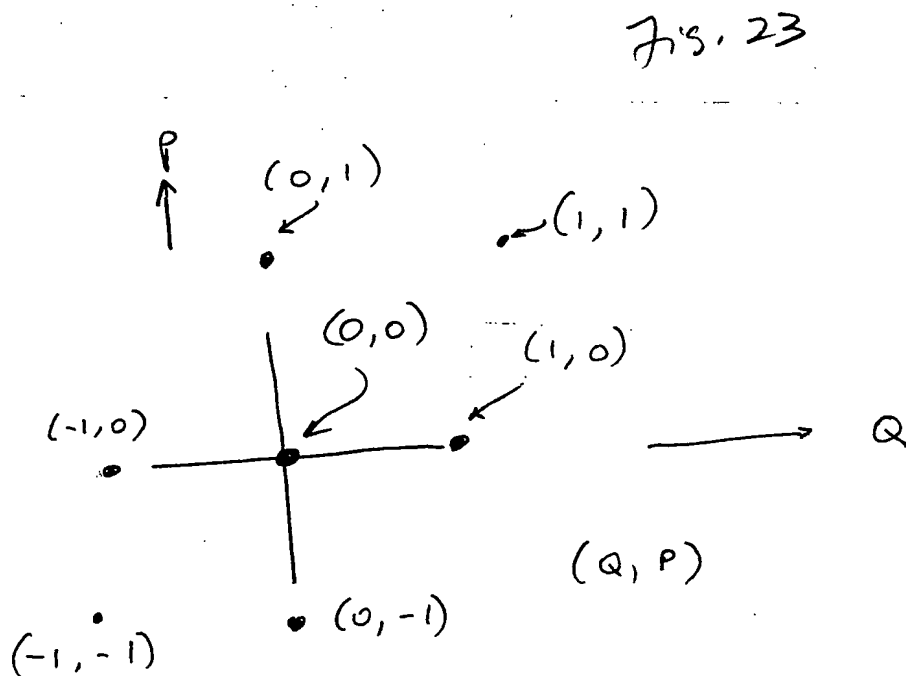


Fig. 23

CCD_x, CCD_y = pixel #, in subpixel resolution

Fig. 24

(before)

Calibration Table #1

Line 1					Line 2					Line N				
Row 1	Row 2	Row 3	Row 4	...	Row 1	Row 2	Row 3	Row 4	...	Row 1	Row 2	...	Row M	Row N
1.0	1.1	1.5	2.1	...	27.1	29.5	30.2	37.1	...					
mm Distance														
10.2	20.4	32.8	44.5		11.5	21.6	36.2	44						
mm Distance														
3.9	4.5	6.8	12.2		34.0	41.1	43.0	46						
mm Dist.														
12.1	21.5	30.4	46.3		13.2	21.8	31.0	48.2						
mm Dist.														

Z₁

Z₂

(Q, P)

Calibration Table #2

Quadrant I		Row 0					Row 1					Row + P/2				
		(0,0)	(1,0)	(2,0)	(3,0)	...	(Q/2 - ΔQ, 0)	...	(Q/2, 0)	(0,1)	(1,1)	(2,1)	...	(0, P/2)	...	(Q, P/2)
Z ₁	CCD _X	640.1	700.2	760.6	820.5	...	...	...	—	640.1	700.2	...	...	...	...	1,279.5
	CCD _Y	640.1	640.1	640.3	640.4	...	...	...	—	701.2	701.5	...	...	...	...	1,279.4
Z ₂	CCD _X	640.2	680.3	741.2	801.6	...	...	...	1,279.5	...	681.2	...	...	...	...	1,256.7
	CCD _Y	640.2	640.3	640.1	640.1	...	...	...	640.2	...	680.9	...	...	...	...	1,251.5

Quadrant II

		Row					Row 1			Row + P/2			
		$(-1,0)$	$(-2,0)$	$(-3,0)$	$(-4,0)$	\dots	$(Q_2 - Q, 0)$	\dots	$(-1,1)$	$(-2,1)$	$(-3,1)$	\dots	$(-Q_2, P/2)$
Z ₁	CCD _x												
	CCD _y												
Z ₂	CCD _x												
	CCD _y												

Quadrant IV

		Quadrant V		Row 1		Row + P/2	
				$(-1,-1)$	$(-2,-1)$	$(-3,-1)$	\dots
Z ₁	CCD _X						
	CCD _Y						
Z ₂	CCD _X						
	CCD _Y						

Quadrant VI

Quadrant VII		Row 1		Row + P/2	
		(0,-1)	(1,-1)	(2,-1)	(3,-1)
Z ₁	CCD _X				
	CCD _Y				
Z ₂	CCD _X				
	CCD _Y				

719,25

Fig. 26

(after)

ccd x, ccd y = pixel #, in subpixel resolution

Calibration Table #1

Pattern		Line 1				Pattern				Line 2				Line N			
Row 1	Row 2	Row 3	Row 4	...	Row M	Row 1	Row 2	Row 3	Row 4	...	Row M	Row 1	Row 2	...	Row M		
1.0	1.1	1.5	2.1		...	27.1	29.5	30.2	37.1								
ccd x								-14.6									
mm distance																	
102	20.4	32.8	44.5		...	11.5	21.6	36.2	44								
ccd y																	
mm distance								-14.4									
3.9	4.5	6.8	12.2			34.0	41.1	43.0	46								
ccd x								-14.8									
mm dist.																	
12.1	21.5	30.4	46.3			13.2	21.8	31.0	48.2								
ccd y																	
mm dist.								-15.8									

Z₁

Z₂

after

Fig. 28

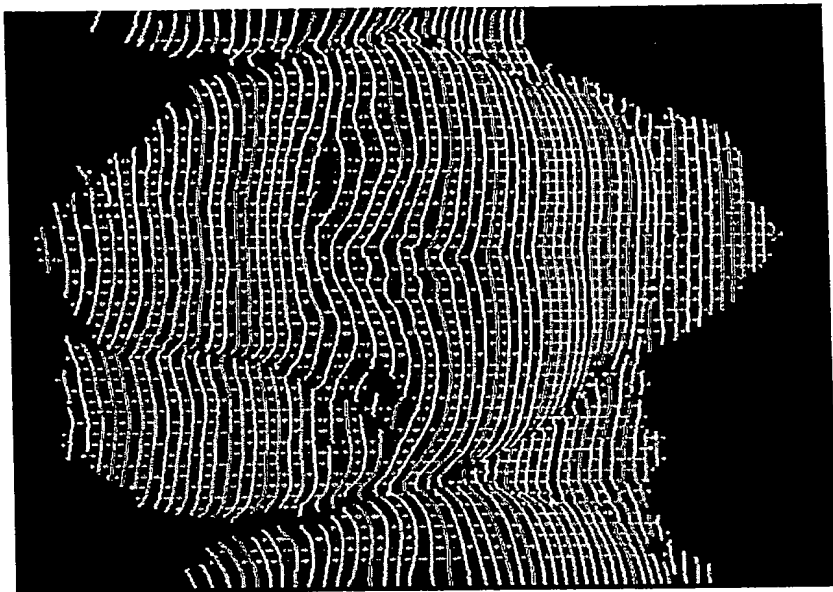


Fig. 27

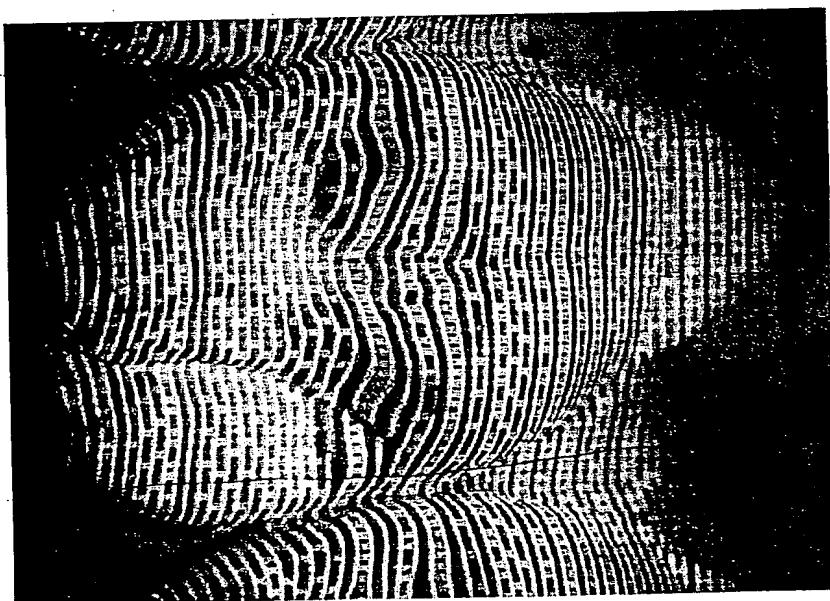




FIG. 29

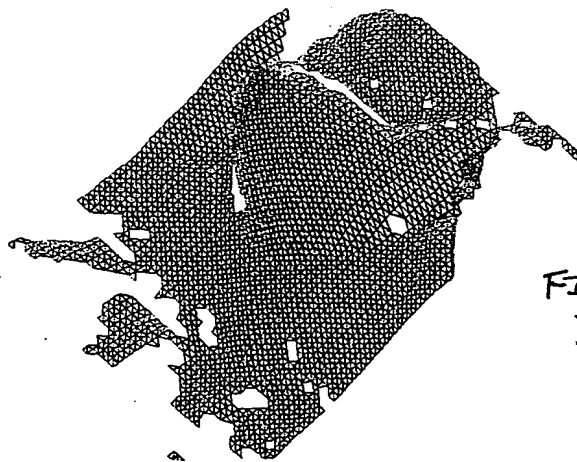


FIG.
30

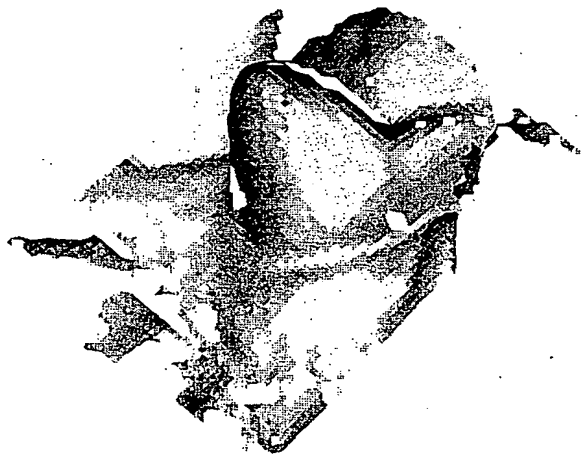


FIG. 31



FIG. 32

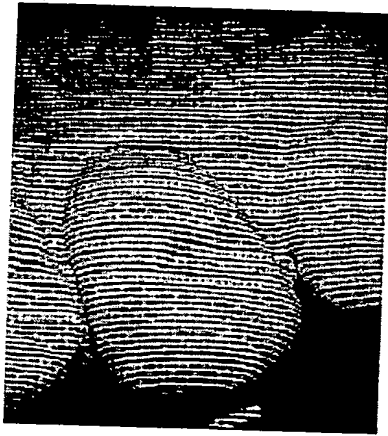


FIG. 33

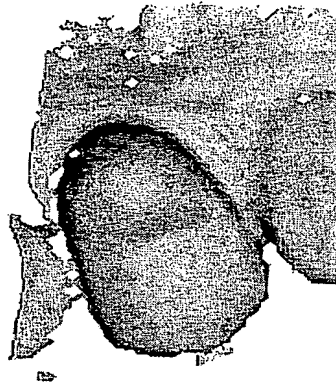


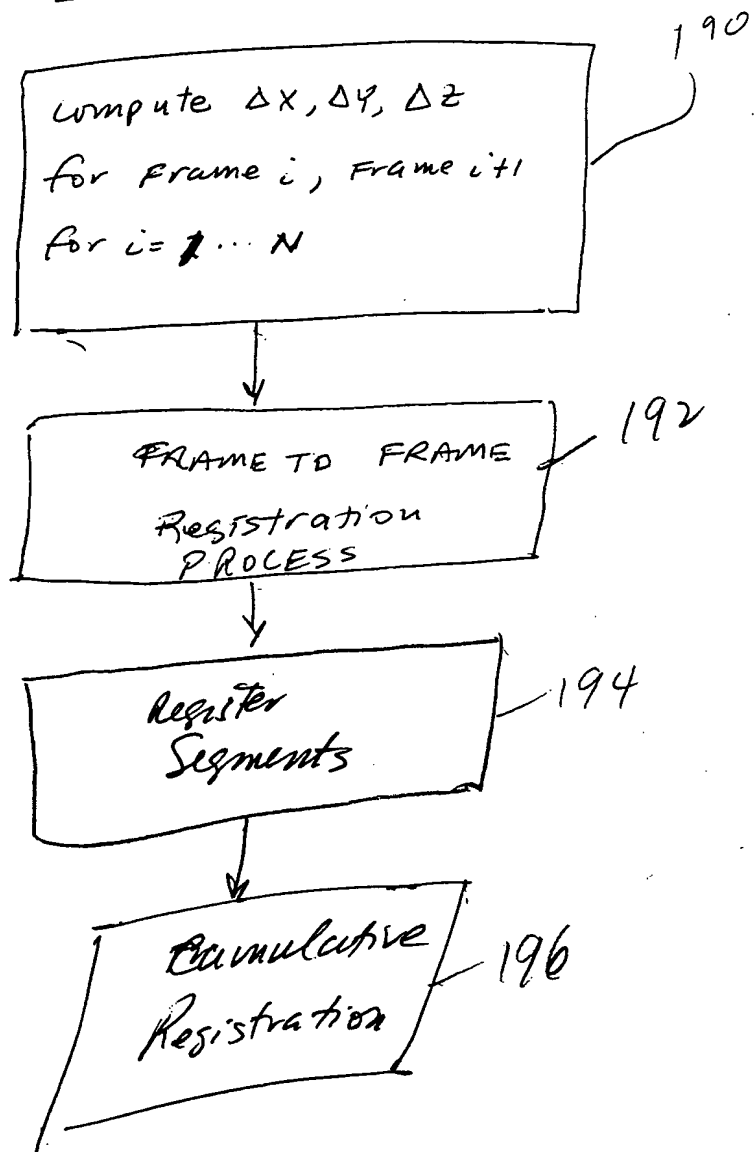
FIG. 34



FIG.
35

Fig. 36

Registration



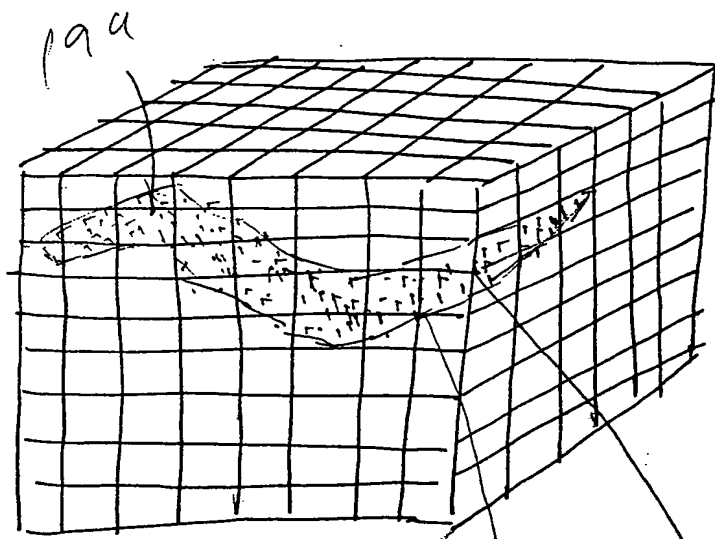
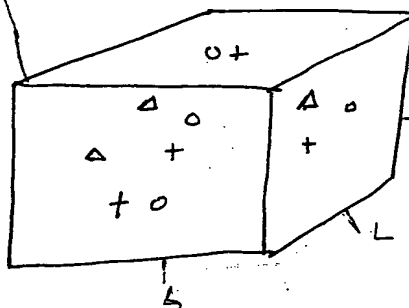


Fig. 37B



$$L = 1.0 \text{ mm}$$

Δ = points of frame i
 $+$ = points of frame $i+1$
 o = points of frame $i+2$

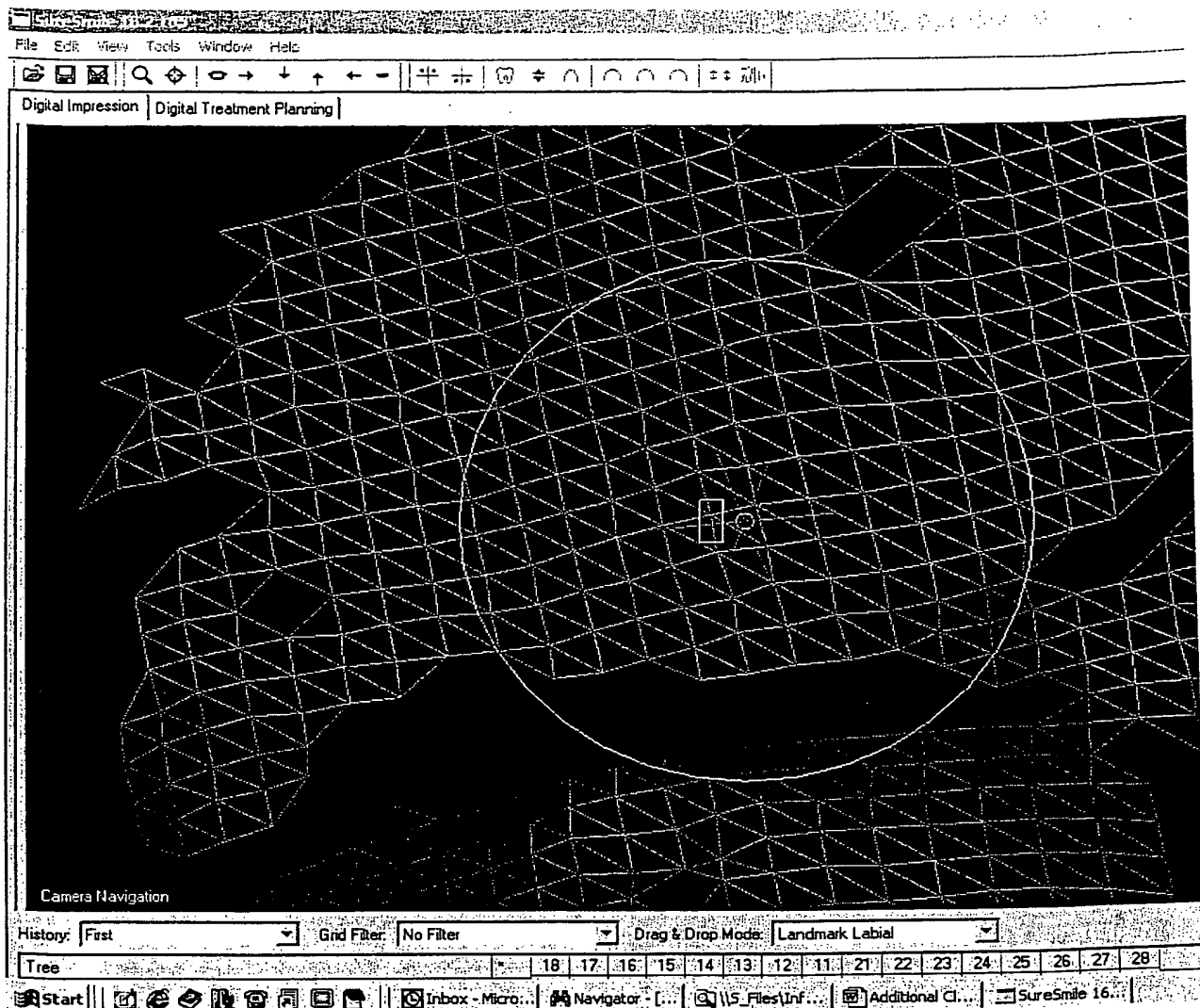
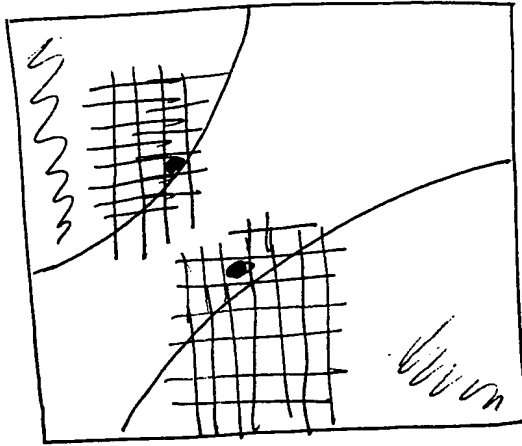


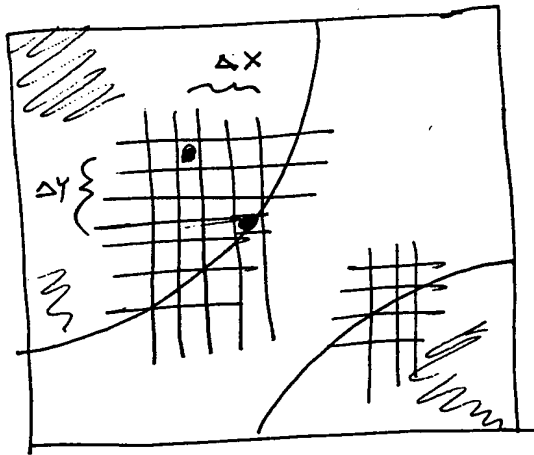
Figure 37c



75-32D



Frame i 75.
38A



75. 38B
Frame i+1

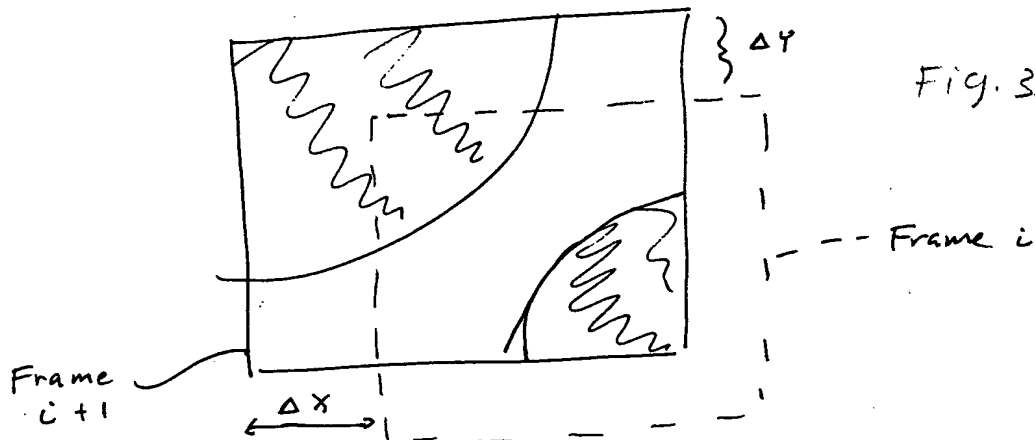
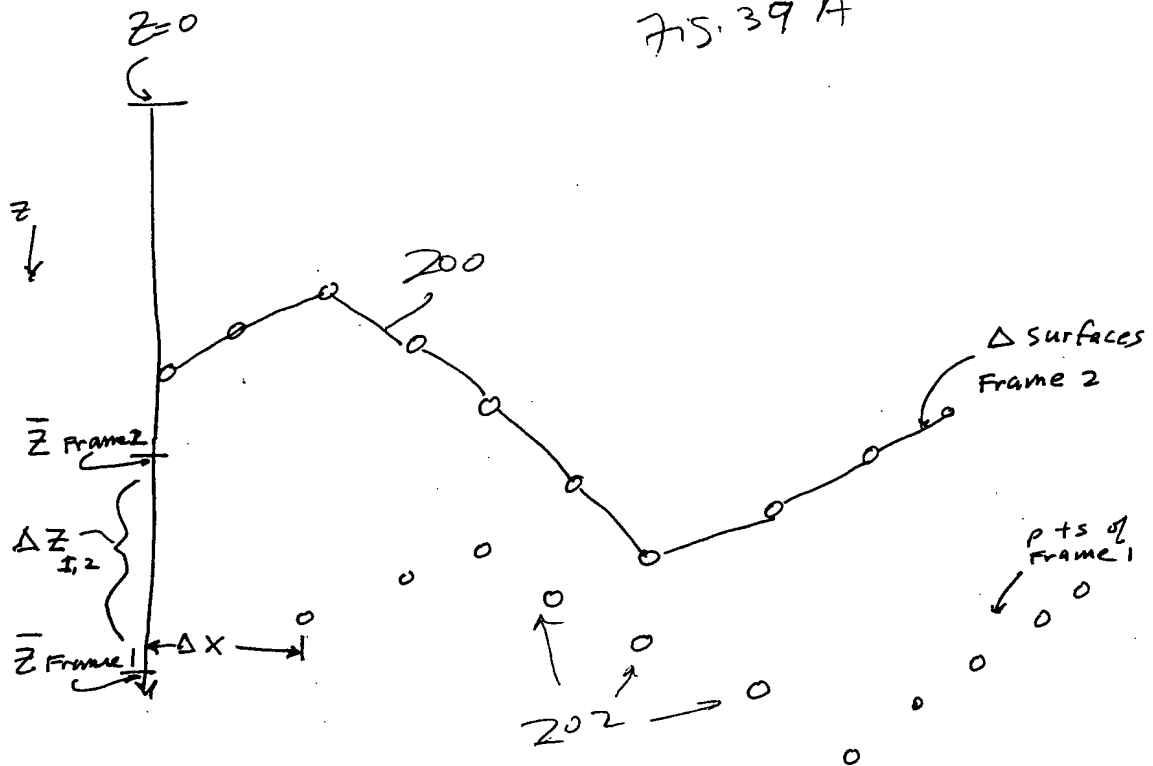
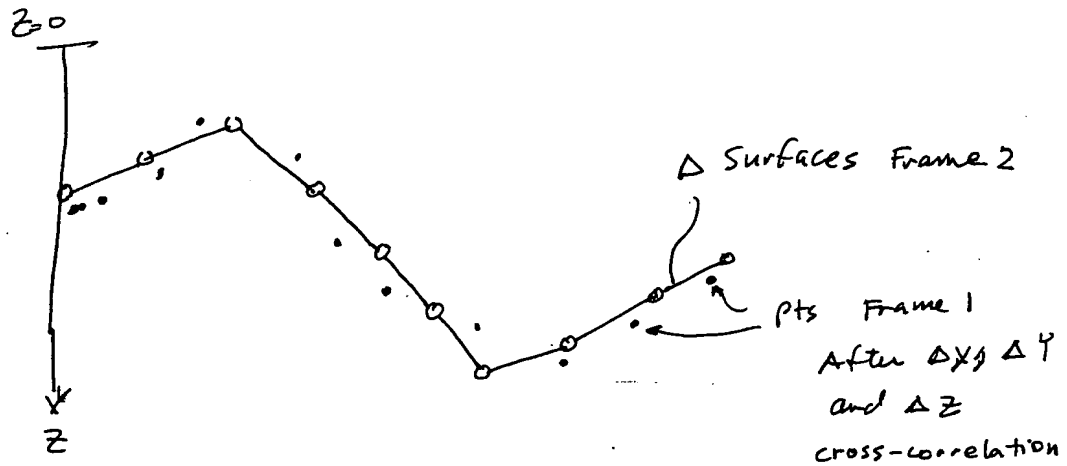


Fig. 38C

715.39 A



715.39 B



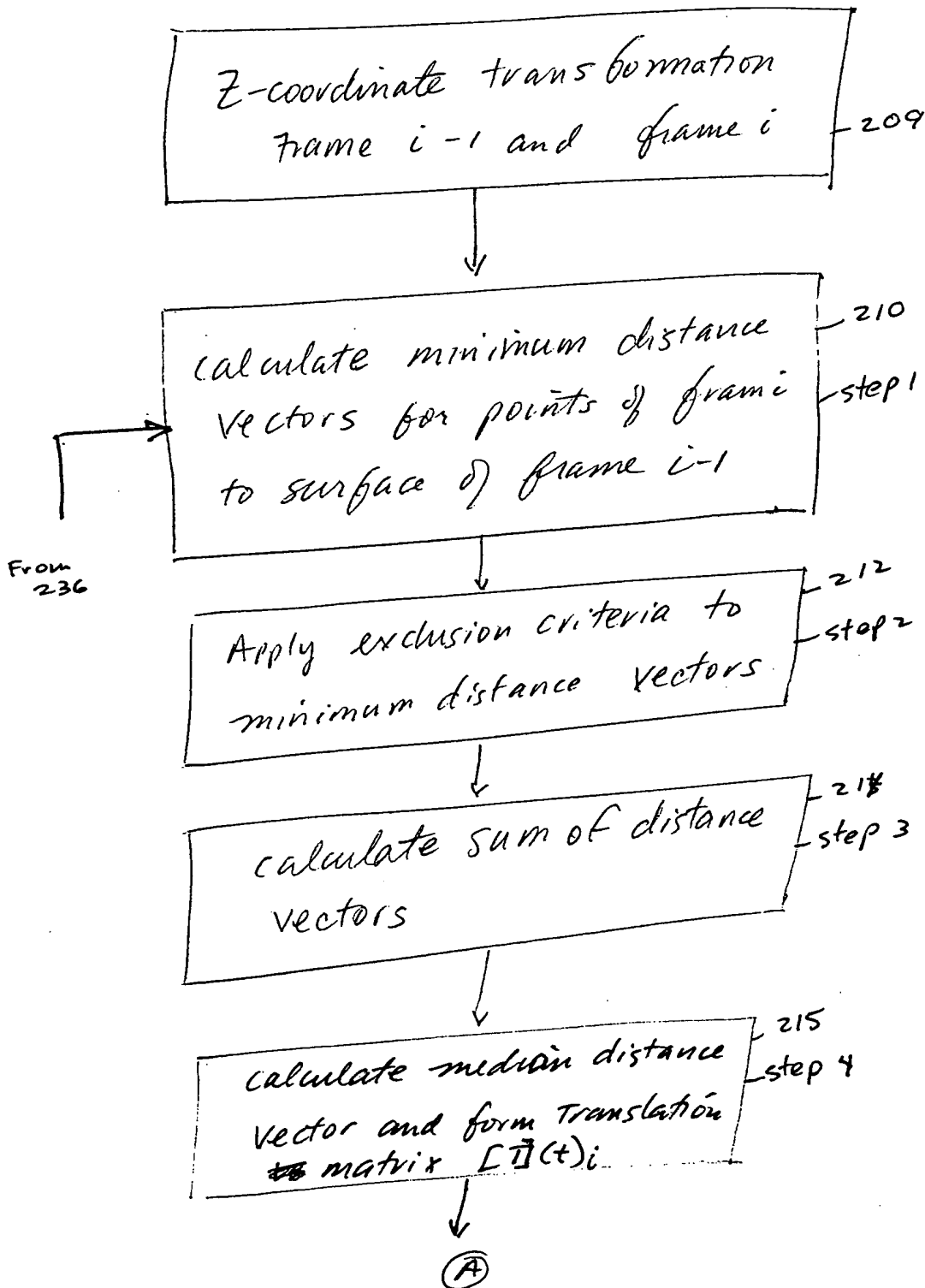
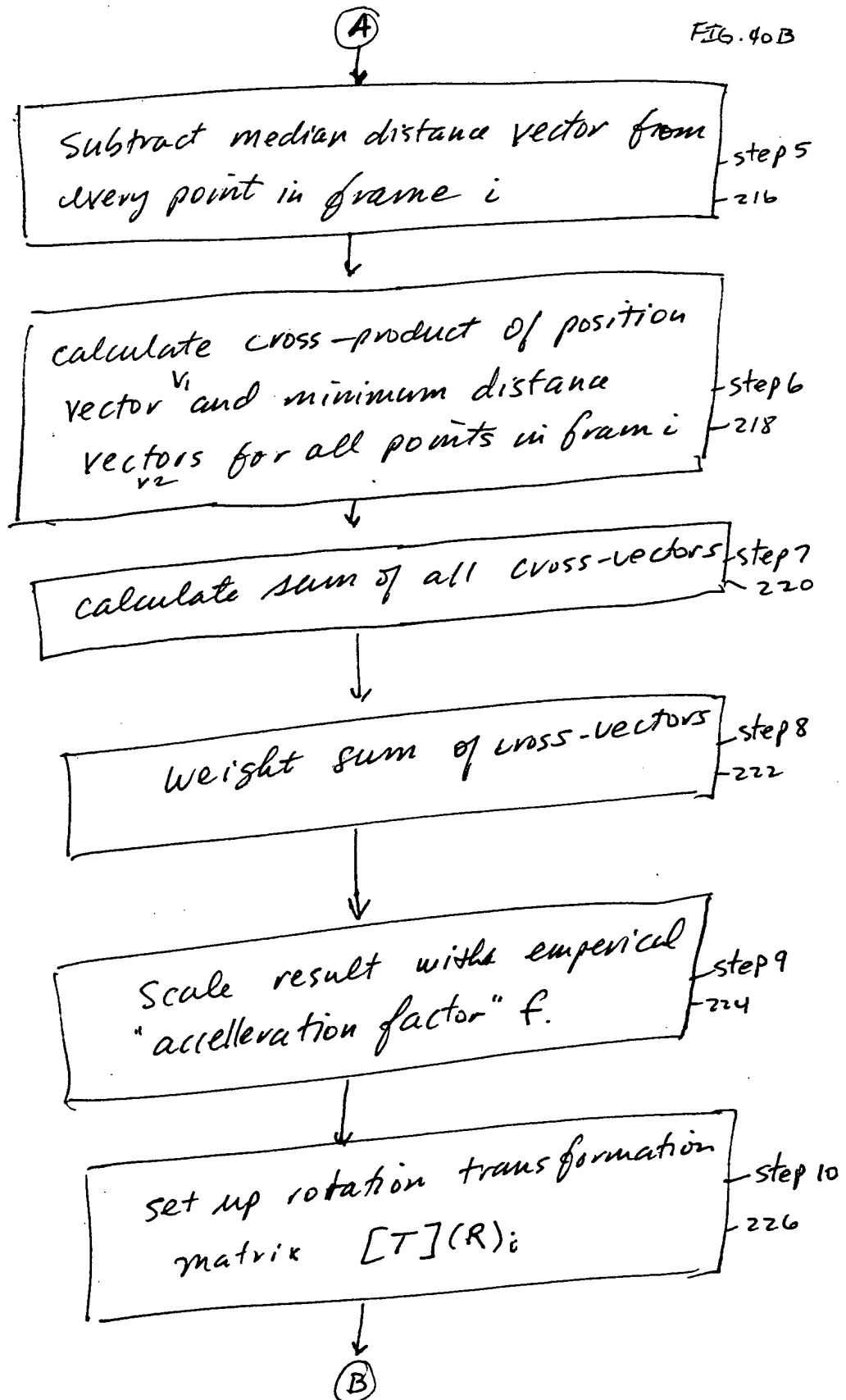
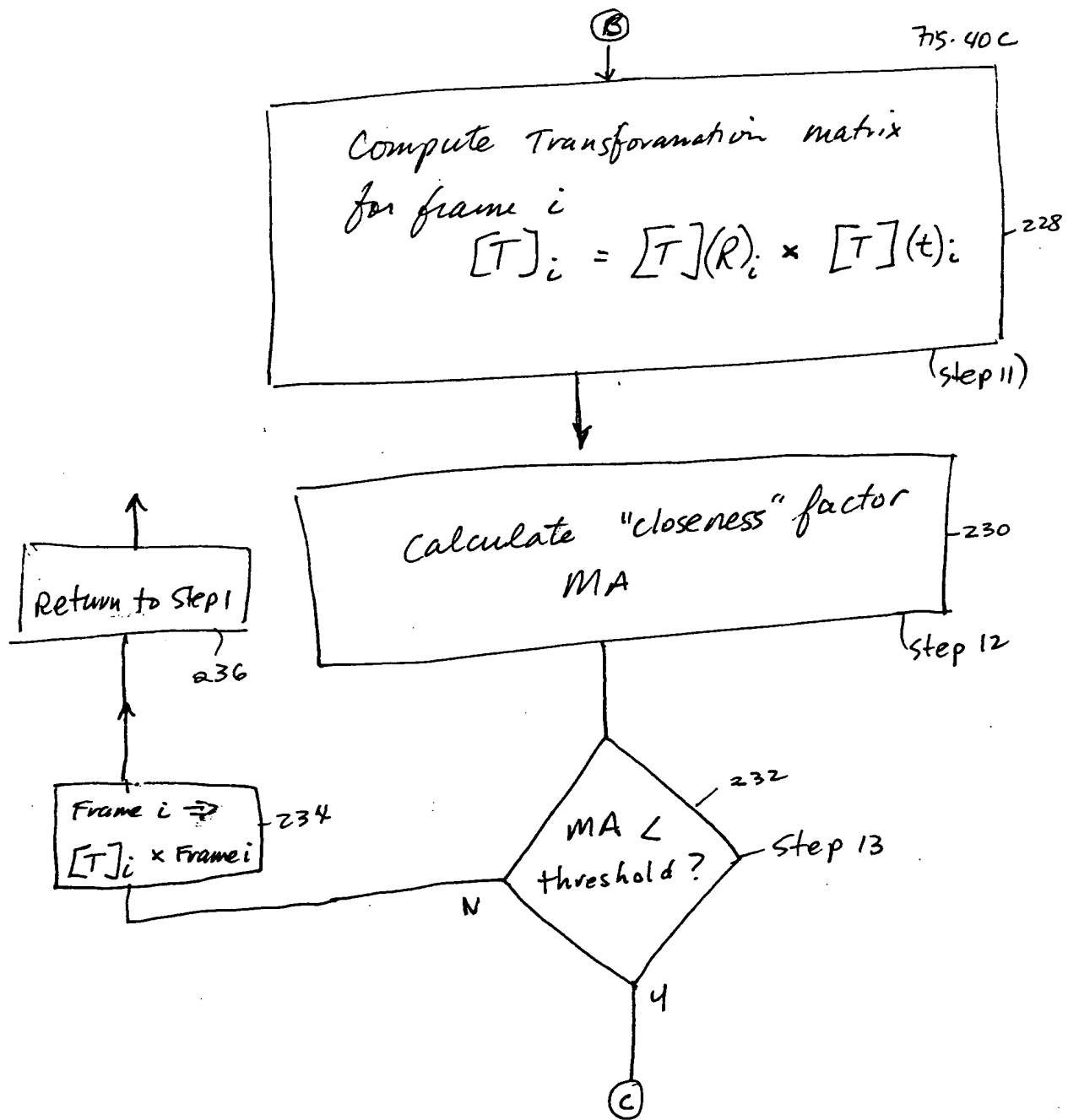


FIG. 40B





Frame to
Frame
registration

Fig. 40 D

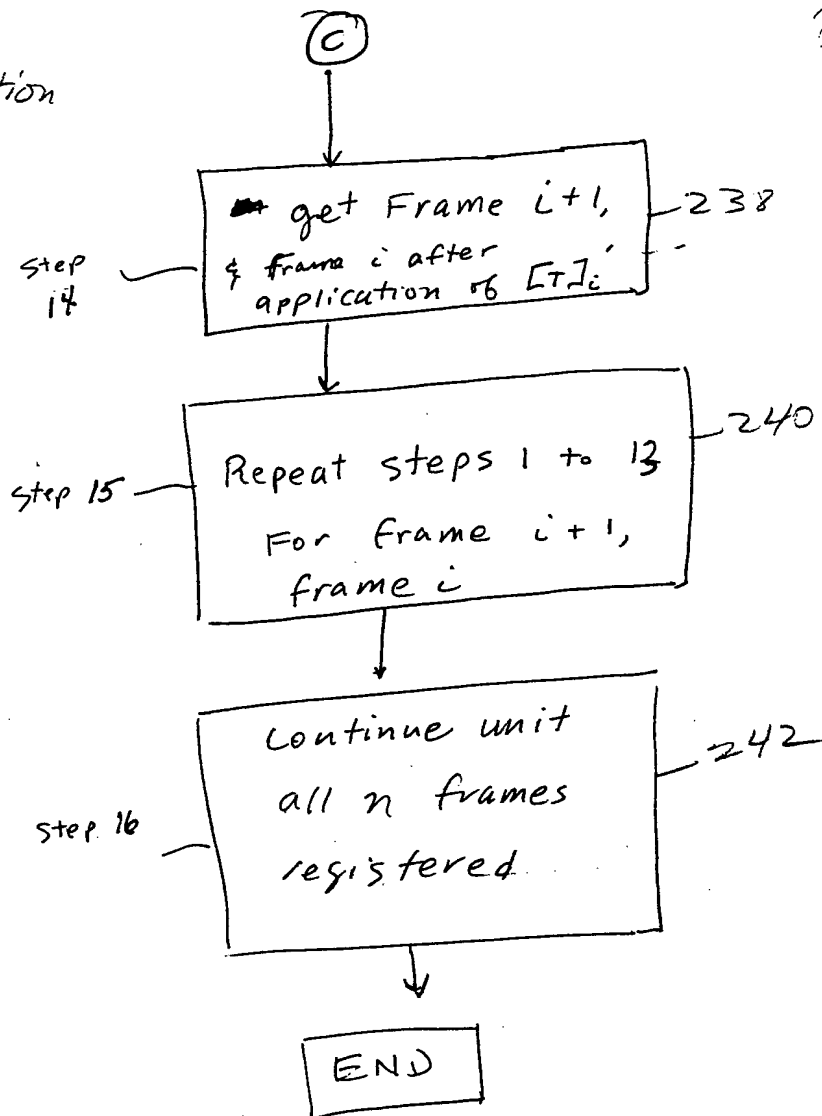


Fig. 41

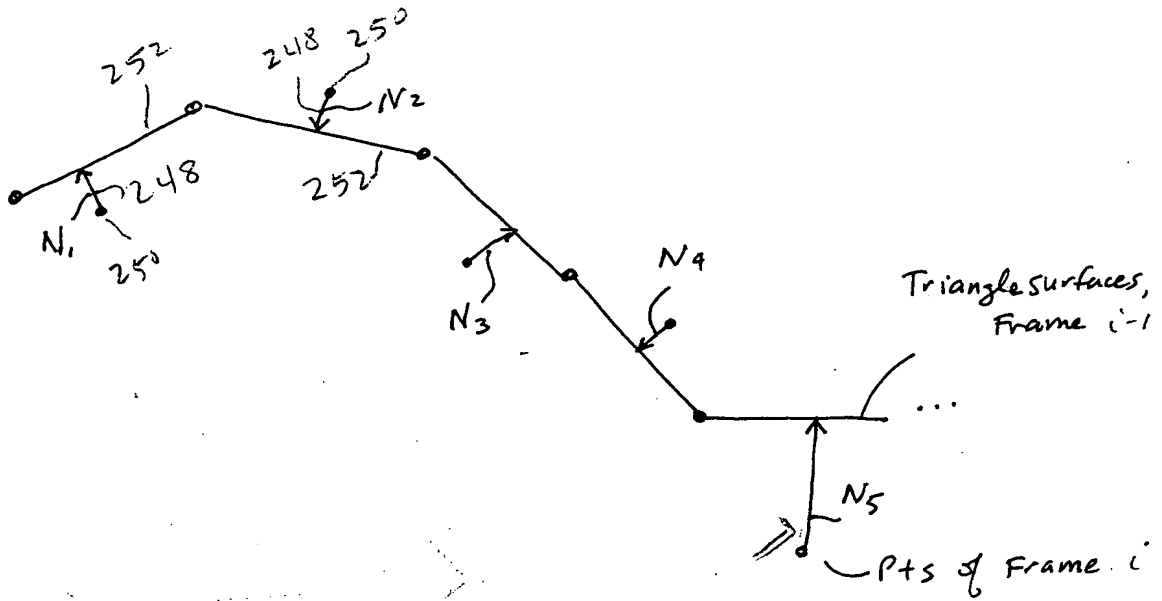


Fig. 42

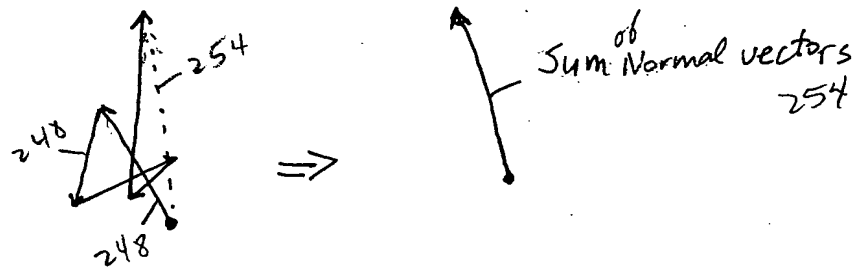


FIG. 43

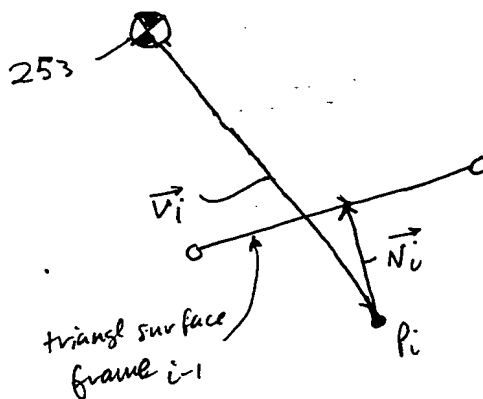
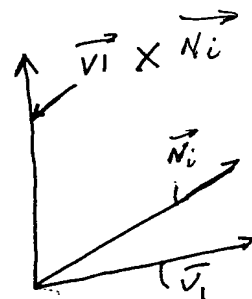


FIG. 44



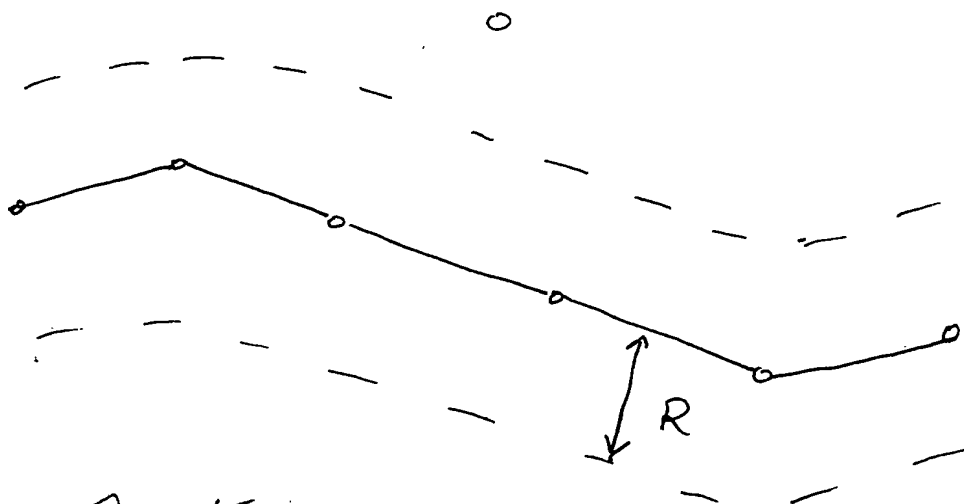


Fig. 45

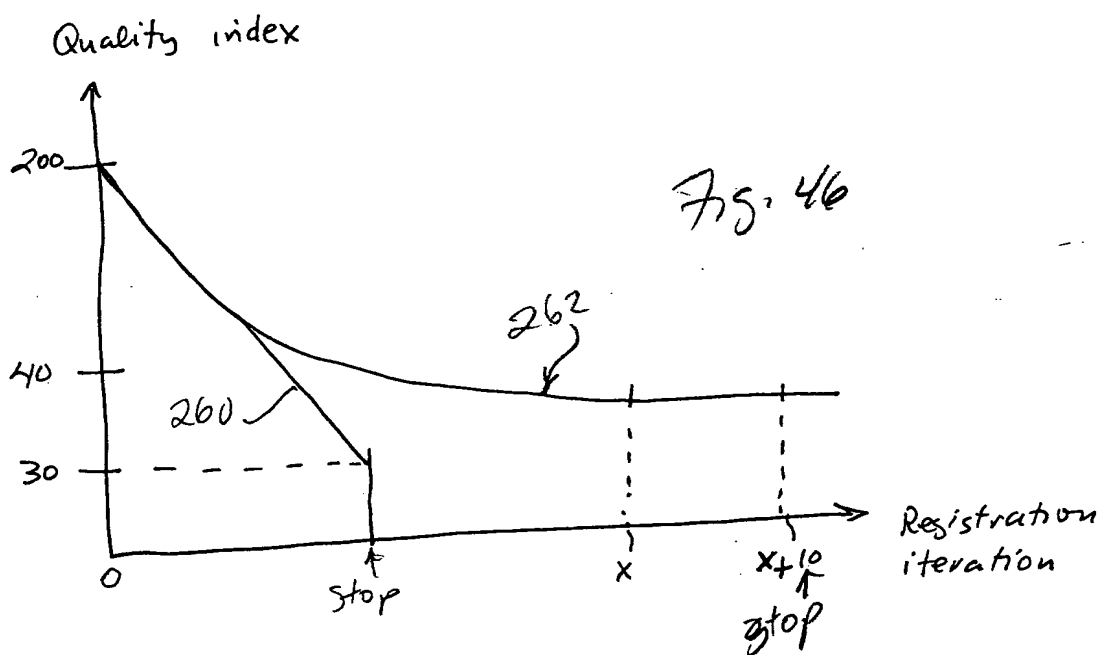
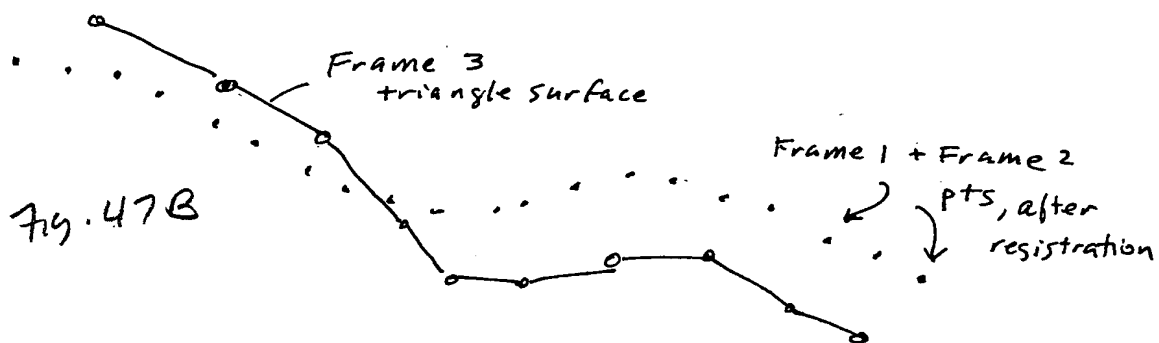
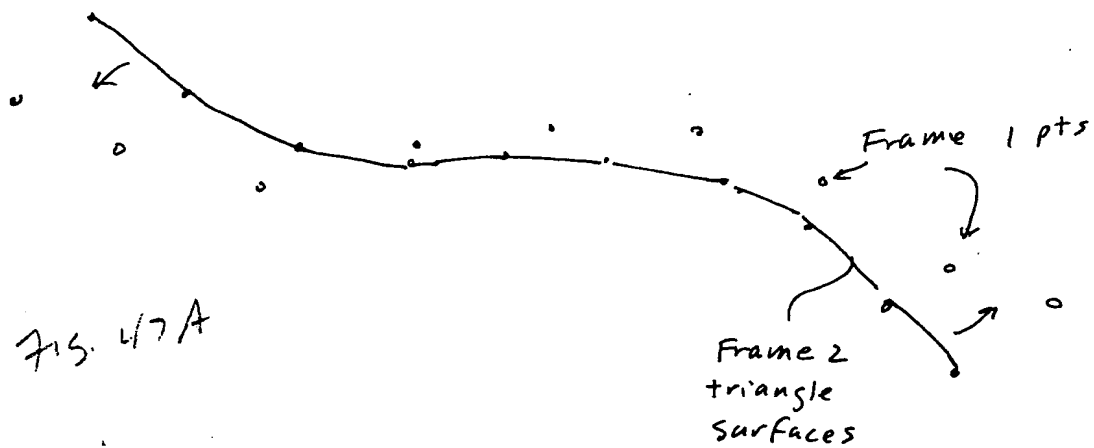
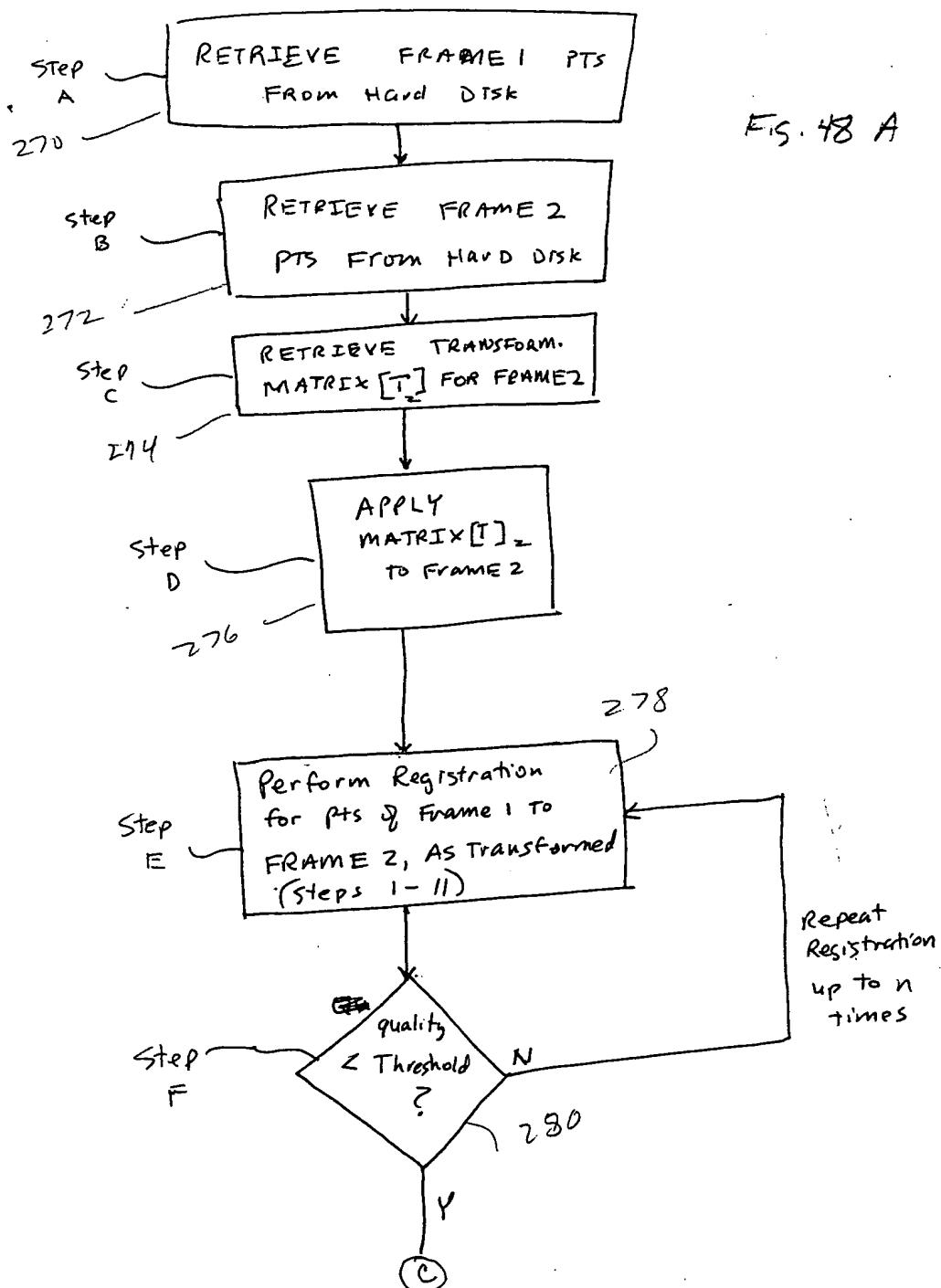


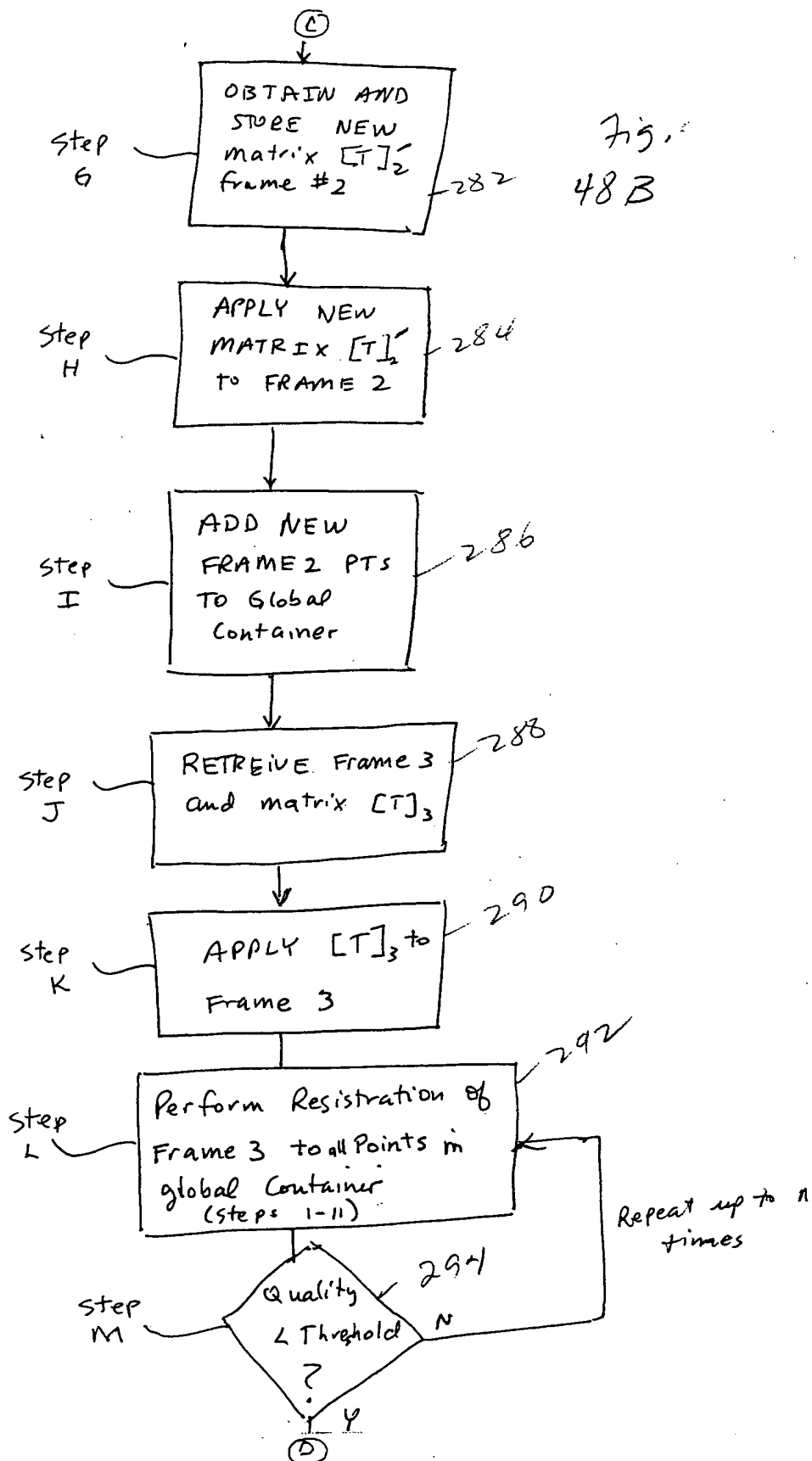
Fig. 46



Cumulative
Registration



THE **NEW** **YORK** **PUBLIC** **LIBRARY**



Cumulative
registration

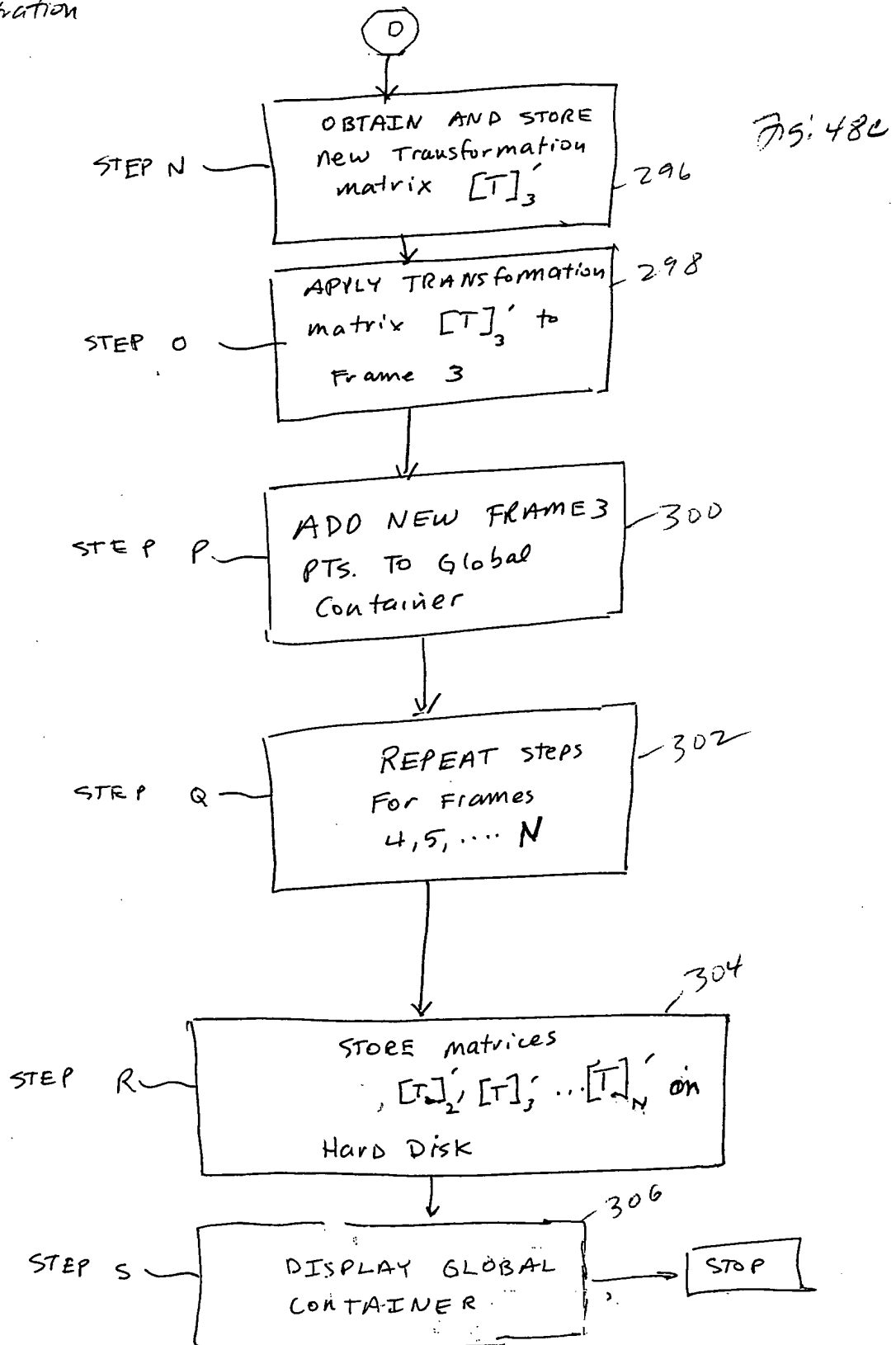


Fig. 49

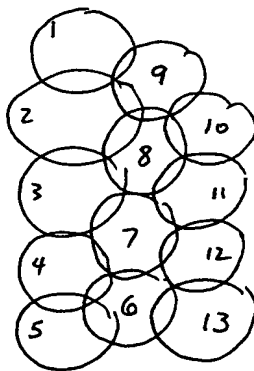
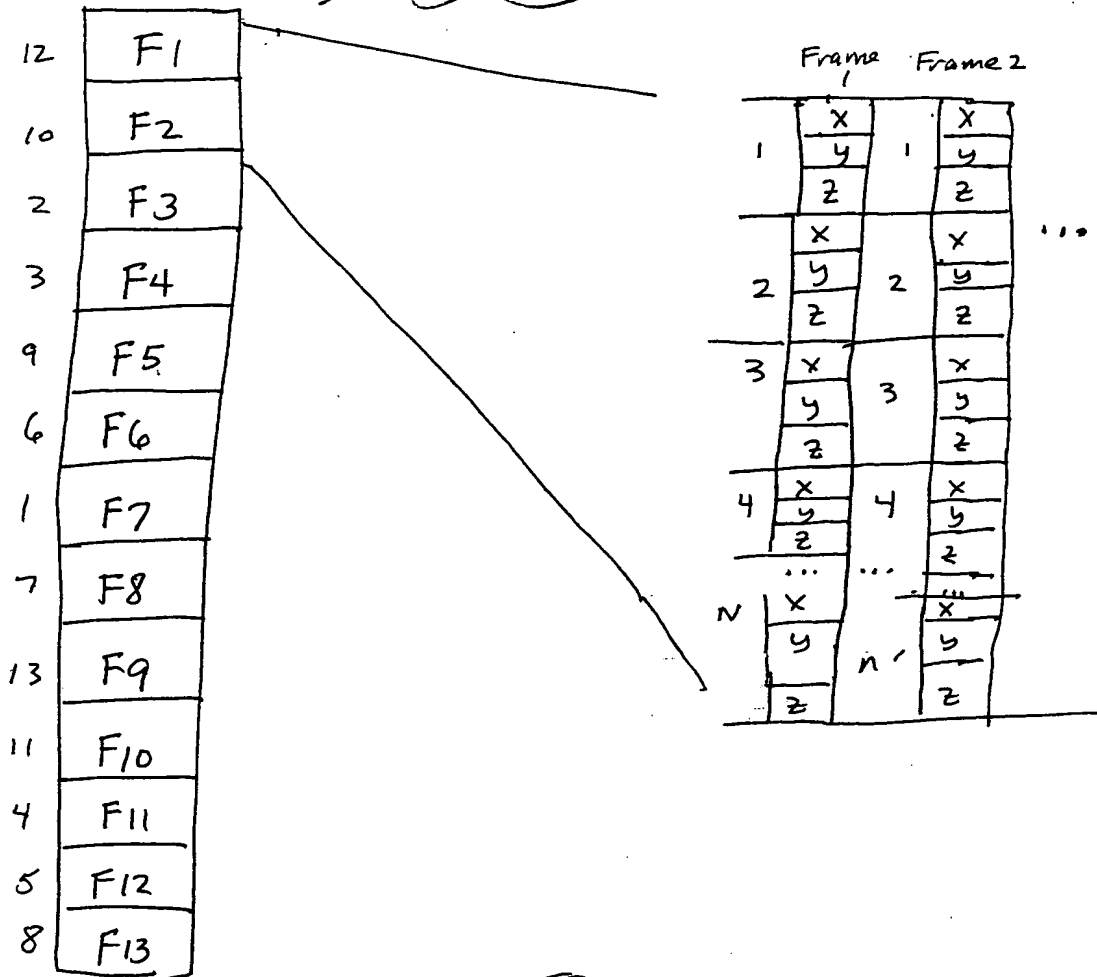


Fig. 50

Fig. 51

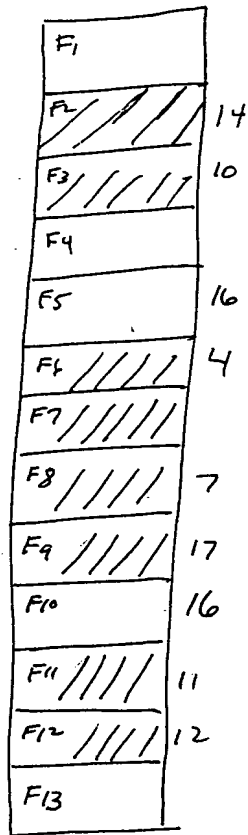


Fig. 52

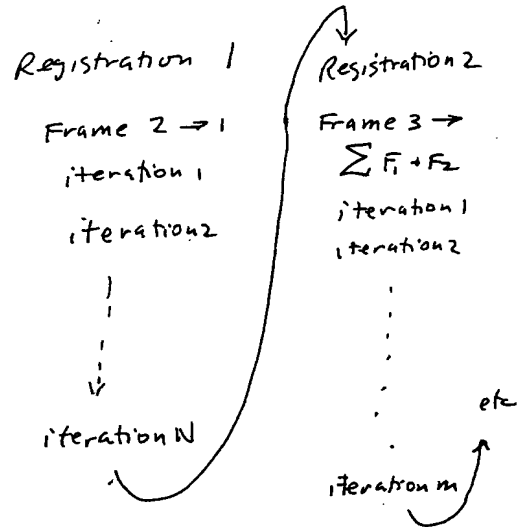


Fig. 53

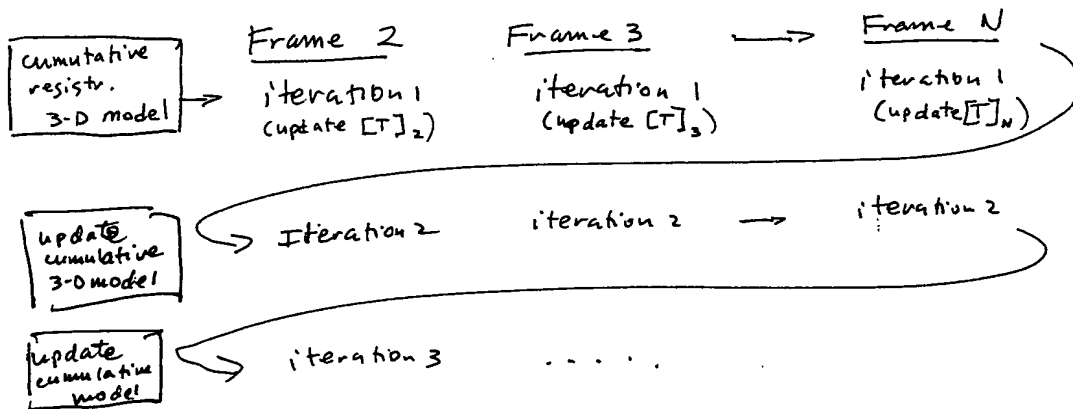
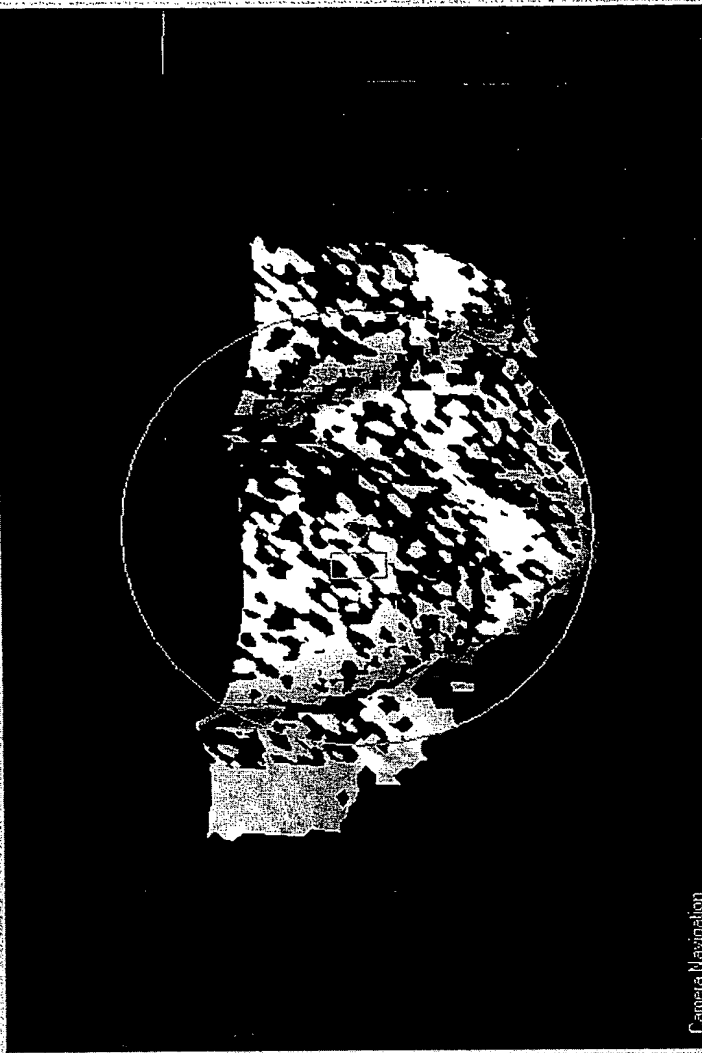


FIG. 54

Registration (raw)				Registration (raw + line)				Registration (line)			
Distance limit (SYX)				Maximal iteration count				Distance limit (SYX)			
250.000 y				400				50.000 y			
Stationary count				Overlap size				Final distance			
5				6.000				40.000 y			
Radius (SYX)				Minimum quote of active points (0:1)				Stationary count			
2.000 mm				0.200				10			
Convergence factor				Maximal triangle size (larger triangles are treated as gaps)				Radius (SYX)			
0.100				0.500				0.500 mm			
Number of points to register				Maximal edge length (larger edges have no attraction)				Convergence factor			
400				1.800 mm				0.010			
Accelerate factor				Maximal count of unsuccessful files (new segment is started when exceeded)				Number of points to register			
1.6				2				400			
				Form factor: Proportion of point distance and element size ($\gamma=0$)				Accelerate factor			
				0.1				1.3			
general				Cell size				Combine frames cumulative			
Count of SYX surfaces (or animation (0 = off))				20				<input checked="" type="checkbox"/> Combine segments cumulative			
Merging				Minimal triangle plane size for closing gaps				Minimal distance from point of base quantity			
Radius of sphere inside which is to replace				0.500 mm				0.400 mm			
Maximal count of edge lines for closing gaps				16				Maximal distance from edge of base quantity			
				1.500 mm				0.000 mm			

75.56



Carolea Plavination

Explosion (continued)

□ 901ms Nr. 24: n=381	U=0.86	MA=51.833y	R=0.500
□ 921ms Nr. 25: n=380	U=0.86	MA=45.213y	R=0.500
□ 941ms Nr. 26: n=378	U=0.85	MA=39.953y	R=0.500
□ 971ms Nr. 27: n=378	U=0.85	MA=39.423y	R=0.500
□ 991ms Nr. 28: n=377	U=0.85	MA=38.293y	R=0.500
□ 1011ms Nr. 29: n=377	U=0.85	MA=37.980y	R=0.500
□ 1031ms Nr. 30: n=377	U=0.85	MA=36.951y	R=0.500
□ 1051ms Nr. 31: n=377	U=0.85	MA=35.405y	R=0.500
□ 1081ms Nr. 32: n=379	U=0.85	MA=34.031y	R=0.500
□ 1102ms Nr. 33: n=379	U=0.85	MA=33.812y	R=0.500
□ 1122ms Nr. 34: n=378	U=0.85	MA=33.507y	R=0.500
□ 1142ms Nr. 35: n=378	U=0.85	MA=33.411y	R=0.500
□ 1162ms Nr. 36: n=378	U=0.85	MA=33.190y	R=0.500
□ 1192ms Nr. 37: n=378	U=0.85	MA=32.670y	R=0.500
□ 1212ms Nr. 38: n=378	U=0.85	MA=32.608y	R=0.500
□ 1232ms Nr. 39: n=378	U=0.85	MA=32.488y	R=0.500
□ 1252ms Nr. 40: n=378	U=0.85	MA=32.448y	R=0.500
□ 1272ms Nr. 41: n=378	U=0.85	MA=32.363y	R=0.500
□ 1302ms Nr. 42: n=378	U=0.85	MA=32.250y	R=0.500
□ 1322ms Nr. 43: n=379	U=0.85	MA=38.589y	R=0.500
□ 1342ms Nr. 44: n=379	U=0.85	MA=38.526y	R=0.500
□ 1352ms Nr. 45: n=376	U=0.85	MA=27.686y	R=0.116

[+] Final Distance limit reached

History	First	Grid Filter:	No Filter
---------	-------	--------------	-----------

Date	
18	28
17	27
16	26
15	25
14	24
13	23
12	22
11	21
10	20
9	19
8	18
7	17
6	16
5	15
4	14
3	13
2	12
1	11
	10
	9
	8
	7
	6
	5
	4
	3
	2
	1

01/18/01 14:08:47
01/18/01 14:08:47
01/18/01 14:08:47
01/18/01 14:08:47
01/18/01 13:11:40

<input type="checkbox"/>	Digital Impression Scene Graph	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Segment_03	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Segment_05	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Segment_06	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Segment_07	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Upper jaw front (Segment_01) 1189 Frames	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Frame_01_001	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Frame_01_002	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Frame_01_003	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Frame_01_004	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Frame_01_005	<input type="checkbox"/>



DLAG AND DROP MODE

Landmark Label

7.5.57

Diagram of upper jaw front (segment 1) showing a sequence of 11 segments numbered 18 to 28. Each segment is represented by a box. Segments 18 through 21 are labeled with their respective numbers. Segments 22 through 28 are labeled with their respective numbers. A bracket on the right side of the diagram indicates the entire sequence is labeled '306'.

Fig. 58 A

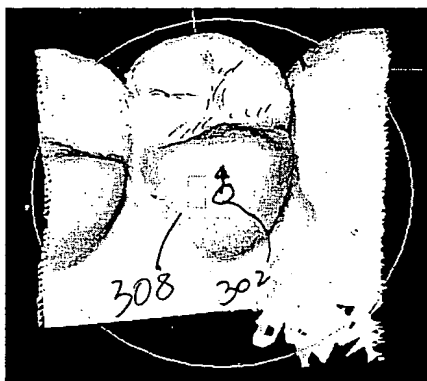


Fig. 58 B

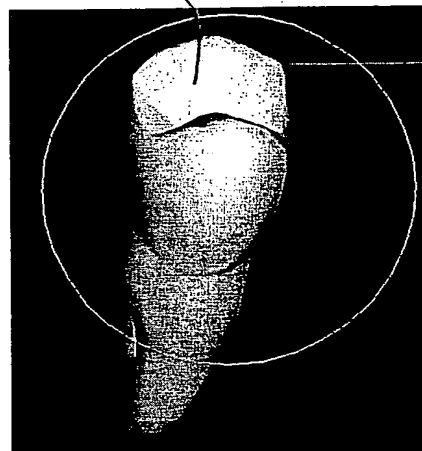


Fig. 58 C

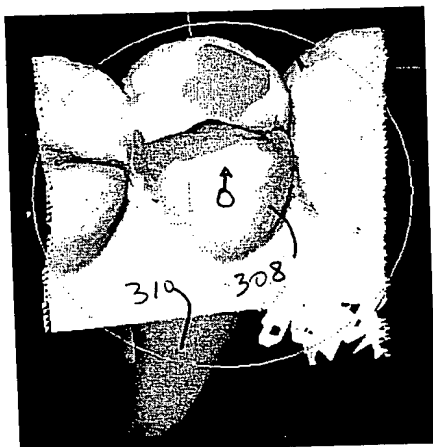


Fig. 58 D

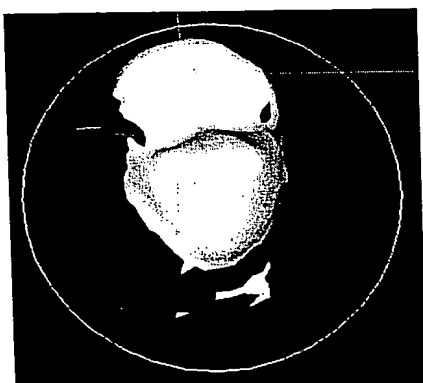
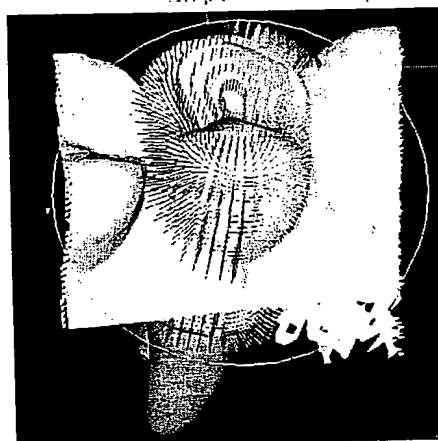


Fig. 58 E

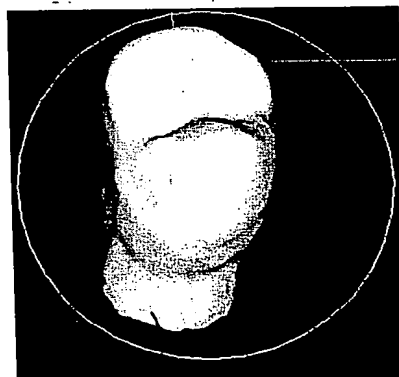


Fig. 58 F

u).

3/2

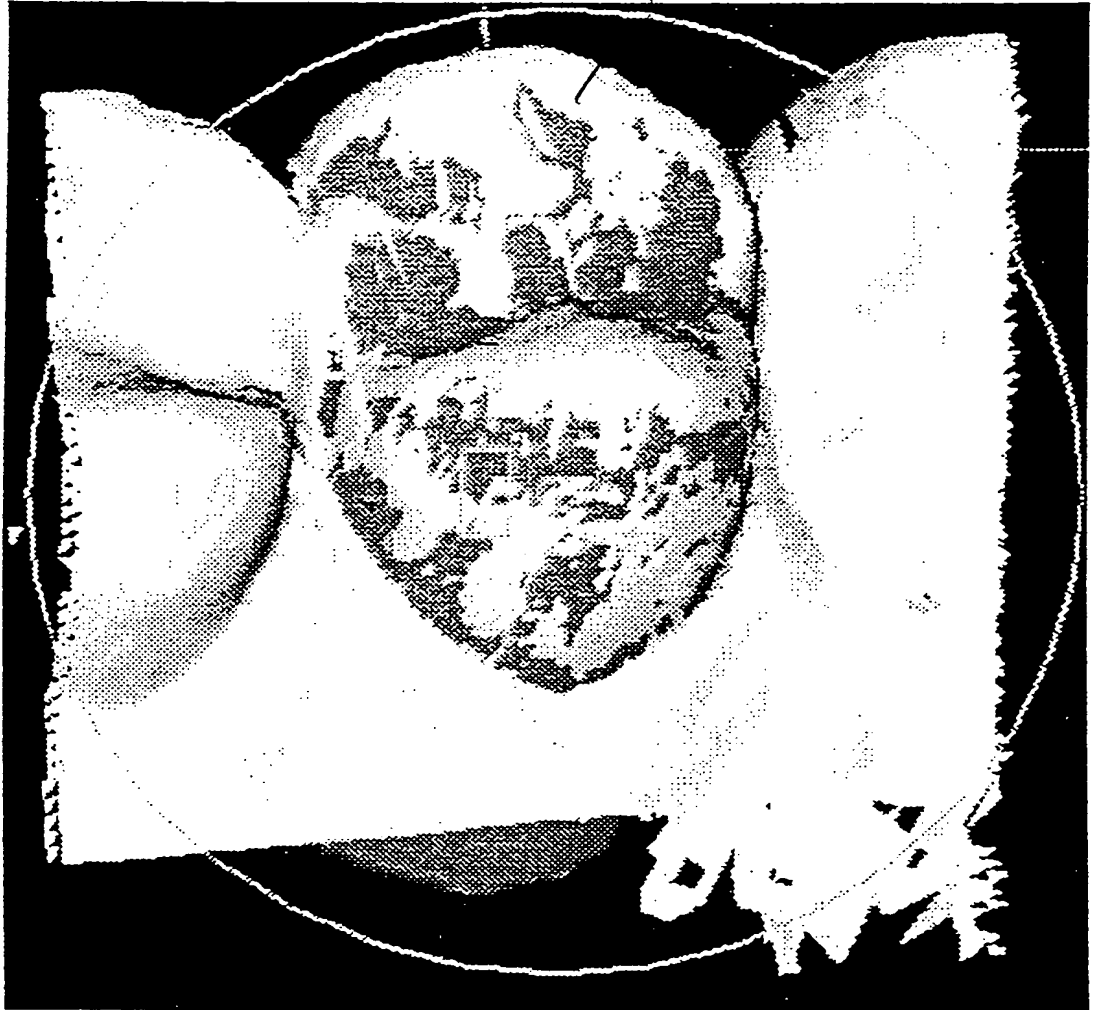
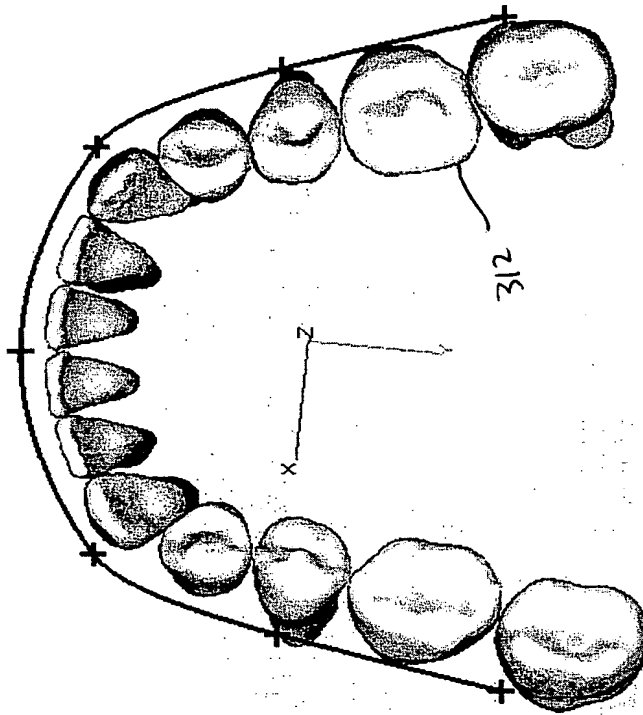


Fig. 59

75.60



320

312

Target Correction
 Bracket Offset
 Relationship
 Technique
 UML
 Case
 Use Case
 Slide Line

- Patent
- Limits
- Differences
- Space Management
- Bonding Collection
- Techniques
- U/E Relation
- Productivity

Slide Line

1

Cuspid Distance	30.2 mm		<input checked="" type="checkbox"/> Symmetric	<input checked="" type="checkbox"/> Apply on right quadrant	<input checked="" type="checkbox"/> Apply on left quadrant
-----------------	---------	---	---	---	--

Molar Dist. (47-37) 57.0 mm Asymmetric

Cartridge Line Offset

0.0 mm

36.7 mm

19.6 mm

5.7 mm

Sample

Jagjagad
 0800 111 111

Jagjagad
 0800 111 111

Jagjagad
 0800 111 111

Jagjagad
 0800 111 111

Jagjagad
 0800 111 111

Jagjagad
 0800 111 111

Jagjagad
 0800 111 111

Jagjagad
 0800 111 111

Jagjagad
 0800 111 111

250 mm

750°

Research

Radius at Front 23.0 mm Angle 76.0°

MINI

Help, press F1

[illegible]

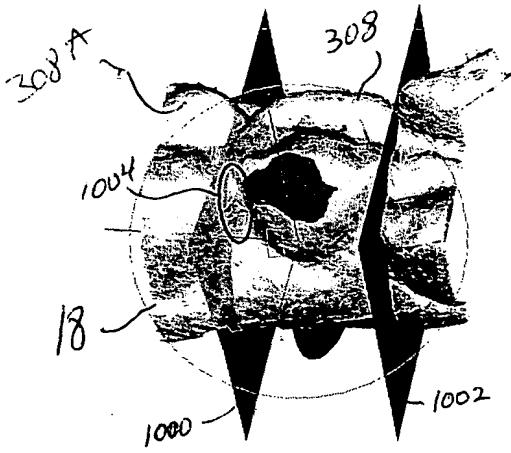


Fig. 64A

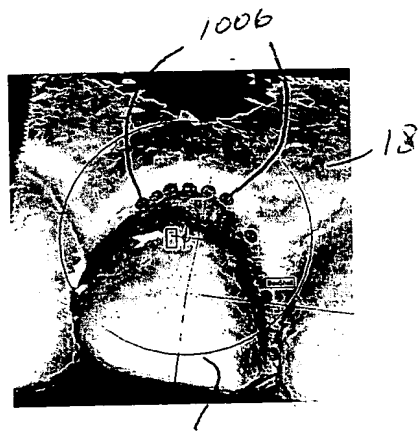


Fig. 64B 308



Fig. 64C

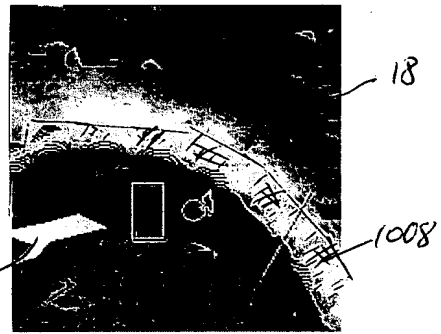


Fig. 64D

Downloaded from www.ascelibrary.org

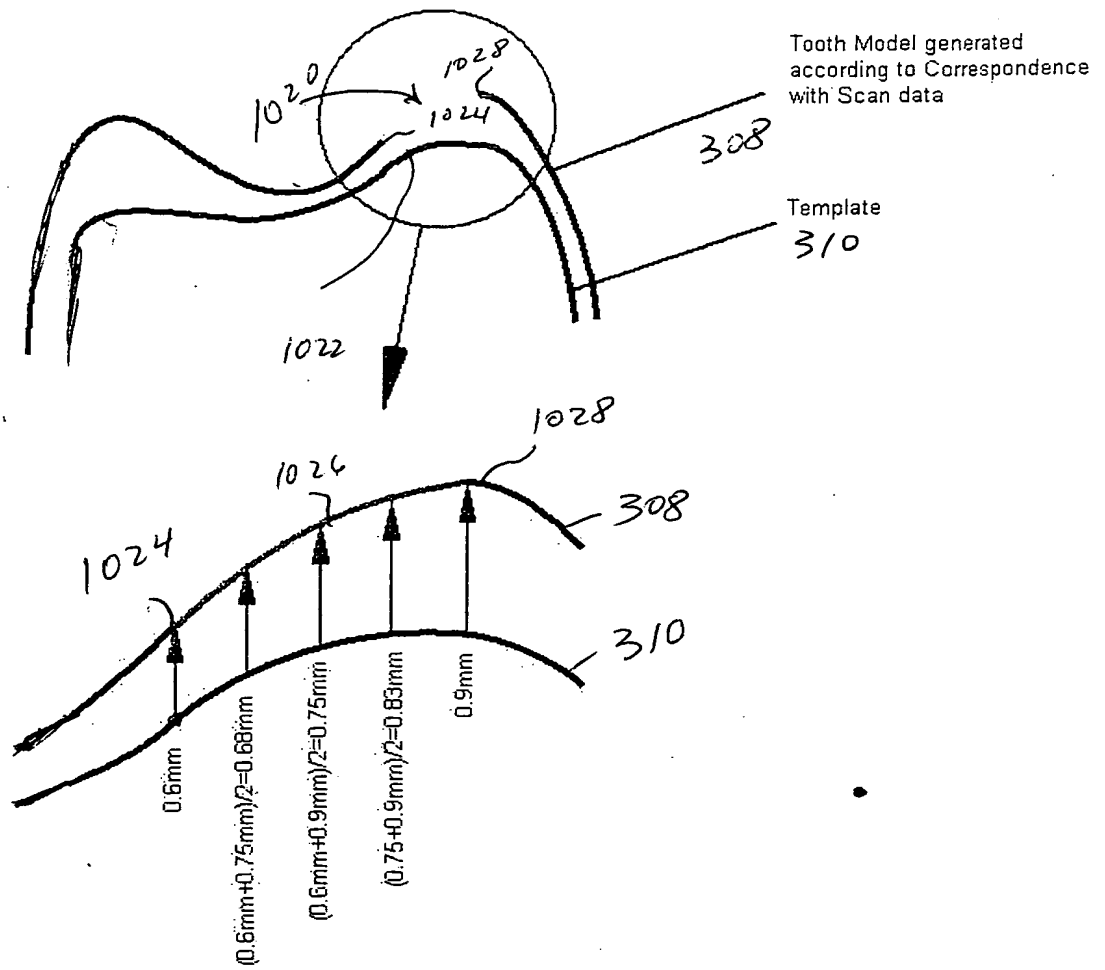


Fig. 65